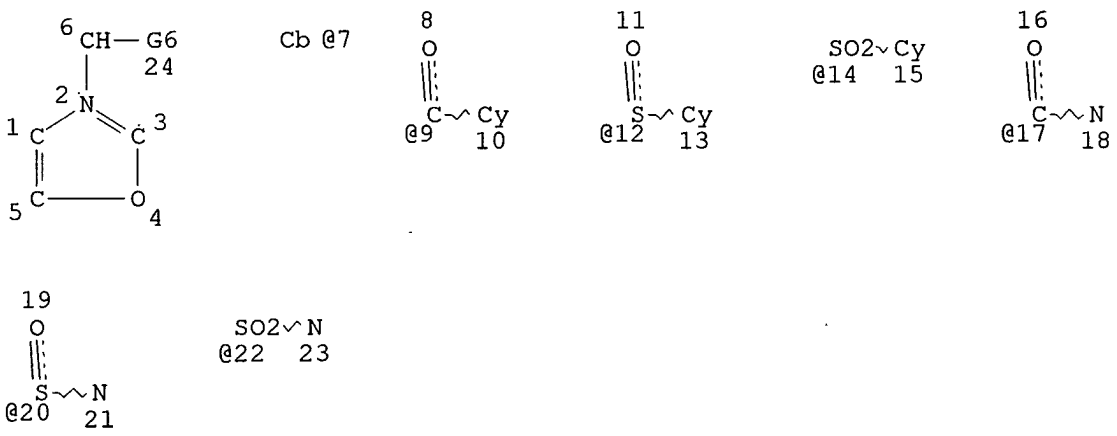
```
=> fil reg; d stat que l18; fil capl; d que nos l19
FILE 'REGISTRY' ENTERED AT 12:35:53 ON 11 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:     9 JAN 2005  HIGHEST RN 810659-29-1
DICTIONARY FILE UPDATES:    9 JAN 2005  HIGHEST RN 810659-29-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

L3                  STR
```




```
VAR G6=CN/7/9/12/14/17/20/22
NODE ATTRIBUTES:
NSPEC   IS RC     AT  18
NSPEC   IS RC     AT  21
NSPEC   IS RC     AT  23
DEFAULT MLEVEL IS ATOM
GGCAT   IS UNS  AT   7
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS M6-X10 C  AT   7

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  24

STEREO ATTRIBUTES: NONE
L18 ...  62 SEA FILE=REGISTRY SSS FUL L3

100.0% PROCESSED   1479 ITERATIONS                 62 ANSWERS
```

these nodes are ring or chain

SEARCH TIME: 00.00.01

FILE 'CAPLUS' ENTERED AT 12:35:53 ON 11 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 11 Jan 2005 VOL 142 ISS 3
FILE LAST UPDATED: 10 Jan 2005 (20050110/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

```
L3              STR
L18          62 SEA FILE=REGISTRY SSS FUL L3
L19          35 SEA FILE=CAPLUS ABB=ON  L18
```

```
=> fil uspatf toxcenter casrea; d que nos l21; dup rem l19,l21
```
FILE 'USPATFULL' ENTERED AT 12:36:04 ON 11 JAN 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'TOXCENTER' ENTERED AT 12:36:04 ON 11 JAN 2005
COPYRIGHT (C) 2005 ACS

FILE 'CASREACT' ENTERED AT 12:36:04 ON 11 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

```
L3              STR
L18          62 SEA FILE=REGISTRY SSS FUL L3
L21          14 SEA L18
```

FILE 'CAPLUS' ENTERED AT 12:36:04 ON 11 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

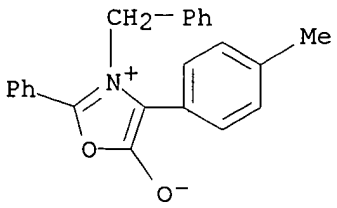
FILE 'USPATFULL' ENTERED AT 12:36:04 ON 11 JAN 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'TOXCENTER' ENTERED AT 12:36:04 ON 11 JAN 2005
COPYRIGHT (C) 2005 ACS

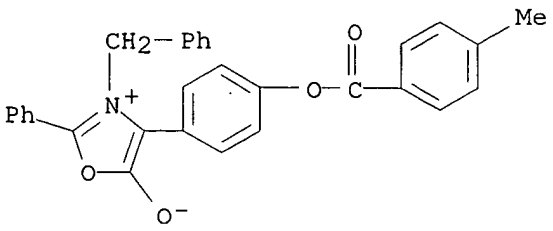
FILE 'CASREACT' ENTERED AT 12:36:04 ON 11 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)
PROCESSING COMPLETED FOR L19
PROCESSING COMPLETED FOR L21
L22 38 DUP REM L19 L21 (11 DUPLICATES REMOVED)
ANSWERS '1-35' FROM FILE CAPLUS
ANSWER '36' FROM FILE USPATFULL
ANSWER '37' FROM FILE TOXCENTER
ANSWER '38' FROM FILE CASREACT

=> d ibib ed abs hitstr 1-36; d iall 37-38

L22 ANSWER 1 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2003:45393 CAPLUS
DOCUMENT NUMBER: 138:271934
TITLE: The development of a catalytic synthesis of munchnones: a simple four-component coupling approach to α-amino acid derivatives
AUTHOR(S): Dhawan, Rajiv; Dghaym, Rania D.; Arndtsen, Bruce A.
CORPORATE SOURCE: Department of Chemistry, McGill University, Montreal, QC, H3A 2K6, Can.
SOURCE: Journal of the American Chemical Society (2003), 125(6), 1474-1475
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:271934
ED Entered STN: 21 Jan 2003
AB A new palladium-catalyzed route to prepare 1,3-oxazolium-5-oxides (i.e., munchnones) directly from imine, carbon monoxide, and acid chloride building blocks has been developed. This provides a straightforward catalytic synthesis of munchnones and is amenable to generating a diverse range of products by simple modification of the imine or acid chloride starting materials. Munchnones are vital synthetic intermediates to a variety of heterocyclic and peptide-based mols. As such, this methodol. has been utilized to design a new catalytic synthesis of α-amino acid derivs. via a one-pot coupling of imines, carbon monoxide, and acid chloride followed by alc. The latter represents the first reported catalytic synthesis of α-amino acids directly from imine and carbon monoxide building blocks.
IT **501443-72-7P 501443-78-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(one-pot synthesis of amino acid derivs. via coupling of imines, carbon monoxide, and acid chloride followed by alc. based on development of catalytic synthesis of munchnones)
RN 501443-72-7 CAPLUS
CN Oxazolium, 5-hydroxy-4-(4-methylphenyl)-2-phenyl-3-(phenylmethyl)-, inner salt (9CI) (CA INDEX NAME)

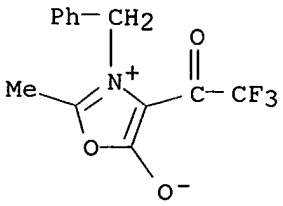


RN 501443-78-3 CAPLUS
CN Oxazolium, 5-hydroxy-4-[4-[(4-methylbenzoyl)oxy]phenyl]-2-phenyl-3-(phenylmethyl)-, inner salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
ACCESSION NUMBER: 2001:775292 CAPLUS
DOCUMENT NUMBER: 136:167356
TITLE: Heterocyclization of 4-trifluoroacetyl-1,3-oxazolium-5-olates with 1,4-bis-nucleophiles
AUTHOR(S): Kawase, Masami; Koiwai, Hiromi; Tanaka, Toru; Tani, Satoru; Miyamae, Hiroshi
CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Josai University, Saitama, 350-0295, Japan
SOURCE: Heterocycles (2001), 55(10), 1919-1926
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:167356
ED Entered STN: 25 Oct 2001
AB Reactions of aromatic 1,4-bis-nucleophiles such as o-phenylenediamine and o-aminothiophenol, with mesoionic 4-trifluoroacetyl-1,3-oxazolium-5-olates gave regiospecifically seven member trifluoromethylated heterocycles such as 1,5-benzodiazepines and 1,5-benzothiazepines. The reaction with o-aminophenol afforded non-cyclized products. The structures of all products were established by x-ray diffraction anal.
IT **220354-32-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(heterocyclization of trifluoroacetyl-1,3-oxazoliumolates with 1,4-bis-nucleophiles)
RN 220354-32-5 CAPLUS
CN Oxazolium, 5-hydroxy-2-methyl-3-(phenylmethyl)-4-(trifluoroacetyl)-, inner salt (9CI) (CA INDEX NAME)

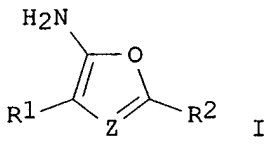


REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 3 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
ACCESSION NUMBER: 1999:561611 CAPLUS
DOCUMENT NUMBER: 131:170344
TITLE: Preparation of ammoniumoxazole and aminooxazolium arylpyrrole insecticide intermediates
INVENTOR(S): Kameswaran, Venkataraman
PATENT ASSIGNEE(S): American Cyanamid Company, USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 5945538	A	19990831	US 1997-883772		19970627
PRIORITY APPLN. INFO.:			US 1996-20836P	P	19960628

OTHER SOURCE(S): CASREACT 131:170344; MARPAT 131:170344
ED Entered STN: 03 Sep 1999
GI



I

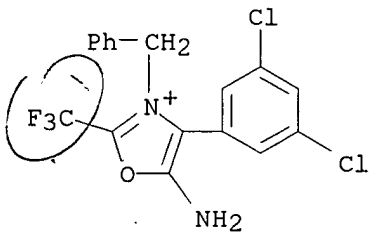
AB Title compds., e.g., I.HX (Z = N) and IX (Z = N+R) [R = (phenyl)alkyl, alkoxyalkyl; R1 = (un)substituted Ph, -furyl, -thienyl; R2 = CnF2n+1; X = anion; n = 1-8] were prepared Thus, 4-ClC6H4CH(CN)NHCOCF3 was treated with CF3SO3H to give I.HO3SCF3 (R1 = C6H4Cl-4, R2 = CF3, Z = N). The latter was cyclocondensed with CH2:CClCN to give 2-(4-chlorophenyl)-5-trifluoromethylpyrrole-3-carbonitrile.

IT **201997-81-1P 201997-86-6P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of ammoniumoxazole and aminooxazolium arylpyrrole insecticide intermediates)

RN 201997-81-1 CAPLUS
CN Oxazolium, 5-amino-4-(3,5-dichlorophenyl)-3-(phenylmethyl)-2-(trifluoromethyl)-, salt with 4-chlorobenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

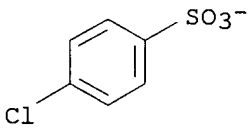
CM 1

CRN 201997-80-0
CMF C17 H12 Cl2 F3 N2 O



CM 2

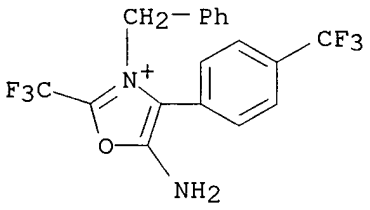
CRN 45934-90-5
CMF C6 H4 Cl O3 S



RN 201997-86-6 CAPLUS
CN Oxazolium, 5-amino-3-(phenylmethyl)-2-(trifluoromethyl)-4-[4-(trifluoromethyl)phenyl]-, salt with 4-chlorobenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

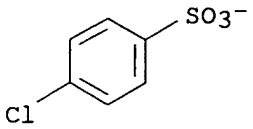
CM 1

CRN 201997-85-5
CMF C18 H13 F6 N2 O



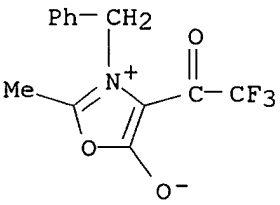
CM 2

CRN 45934-90-5
CMF C6 H4 Cl O3 S



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

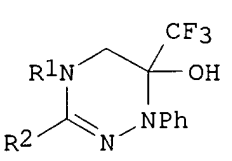
L22 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
ACCESSION NUMBER: 1999:29320 CAPLUS
DOCUMENT NUMBER: 130:168193
TITLE: Synthesis of functionalized pyrrolidines from mesoionic 4-trifluoroacetyl-1,3-oxazolium-5-olates and aminomalonate
AUTHOR(S): Kawase, Masami; Miyamae, Hiroshi; Saito, Setsuo
CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Josai University, Sakado, Saitama, 350-0290, Japan
SOURCE: Heterocycles (1999), 50(1), 71-74
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:168193
ED Entered STN: 15 Jan 1999
AB Mesoionic 4-trifluoroacetyl-1,3-oxazolium-5-olates undergo tandem addition of aminomalonate to afford 3-amido-4-trifluoromethylpyrrolidin-2-ones in moderate yields.
IT **220354-32-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of functionalized pyrrolidines from mesoionic 4-trifluoroacetyl-1,3-oxazolium-5-olates and aminomalonate)
RN 220354-32-5 CAPLUS
CN Oxazolium, 5-hydroxy-2-methyl-3-(phenylmethyl)-4-(trifluoroacetyl)-, inner salt (9CI) (CA INDEX NAME)



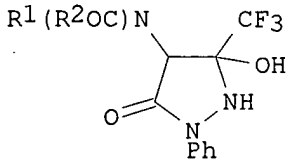
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 5 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5
ACCESSION NUMBER: 1998:90870 CAPLUS
DOCUMENT NUMBER: 128:192629
TITLE: Regioselective reaction of mesoionic 4-trifluoroacetyl-1,3-oxazolium-5-oxalates and phenylhydrazine: synthesis of trifluoromethyl substituted pyrazole and 1,2,4-triazine derivatives
AUTHOR(S): Kawase, Masami; Koiwai, Hiromi; Yamano, Akihito; Miyamae, Hiroshi
CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Josai University,

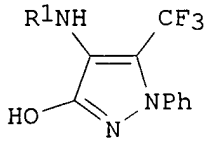
Saitama, 350-02, Japan
SOURCE: Tetrahedron Letters (1998), 39(7), 663-666
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 128:192629
ED Entered STN: 18 Feb 1998
GI



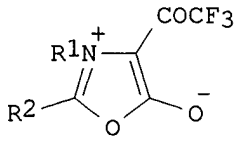
I



II



III



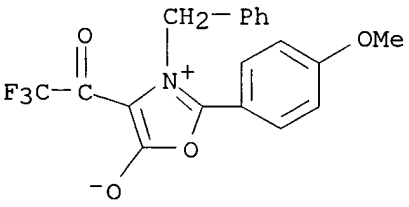
IV

AB 6-Trifluoromethyl-1,2,4-triazines I, 3-trifluoromethyl-5-pyrazolones II (R1 = Me, Ph, CH2Ph, R2 = Ph, 4-MeOC6H4, 4-BrC6H4), or 5-trifluoromethyl-3-hydroxypyrazoles III are selectively obtained in good yields through the regioselective attack of phenylhydrazine on mesoionic 4-trifluoroacetyl-1,3-oxazolium-5-olates IV, depending on the nature of the reaction solvent and temperature

IT **203627-32-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of trifluoromethyl-pyrazoles and -triazines from regioselective reaction of oxazoliumolates with phenylhydrazine)

RN 203627-32-1 CAPLUS

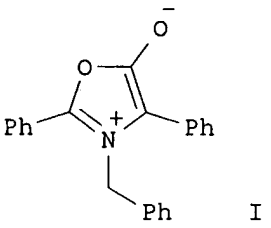
CN Oxazolium, 5-hydroxy-2-(4-methoxyphenyl)-3-(phenylmethyl)-4-(trifluoroacetyl)-, inner salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

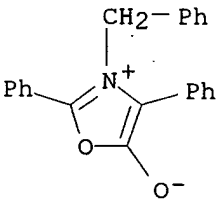
L22 ANSWER 6 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6
ACCESSION NUMBER: 1997:403290 CAPLUS
DOCUMENT NUMBER: 127:135692
TITLE: Tandem 1,3-dipolar cycloadditions of munchnones. Syntheses and molecular structures of 10-azatetracyclo[6.3.0.04,11.05,9]undecanes and azahomopentaprismane
AUTHOR(S): Gribble, Gordon W.; Sponholtz, William R., III;

Switzer, Frank L.; D'Amato, Ferdinando J.; Byrn, Marianne P.
CORPORATE SOURCE: Dep. Chem., Dartmouth College, Hanover, NH, 03755-3564, USA
SOURCE: Chemical Communications (Cambridge) (1997), (11), 993-994
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 127:135692
ED Entered STN: 30 Jun 1997
GI



I

AB Photocyclization of 10-benzyl-9,11-diphenyl-10-azatetracyclo[6.3.0.04,11.05,9] undeca-2,6-diene, prepared in one step from munchnone I and cycloocta-1,3,5,7-tetraene, gives an azahomopentaprismane derivative
IT **192877-82-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn.of azatetracycloundecanes and azahomopentaprismane)
RN 192877-82-0 CAPLUS
CN Oxazolium, 5-hydroxy-2,4-diphenyl-3-(phenylmethyl)-, inner salt (9CI) (CA INDEX NAME)



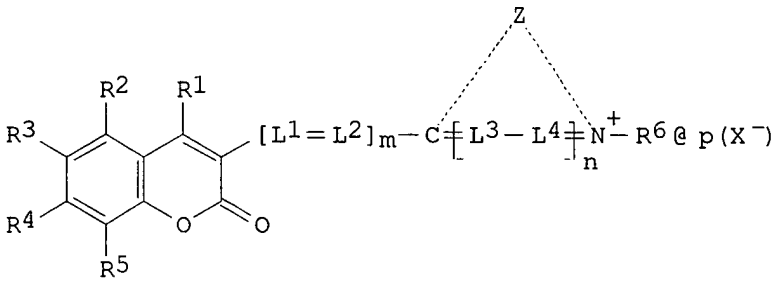
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 7 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7
ACCESSION NUMBER: 1994:148785 CAPLUS
DOCUMENT NUMBER: 120:148785
TITLE: Silver halide photographic material
INVENTOR(S): Ohno, Shigeru
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5223382	A	19930629	US 1992-983701	19921201
JP 05150401	A2	19930618	JP 1991-318201	19911202
JP 2648992	B2	19970903		

PRIORITY APPLN. INFO.: JP 1991-318201 A 19911202
ED Entered STN: 19 Mar 1994
GI



I

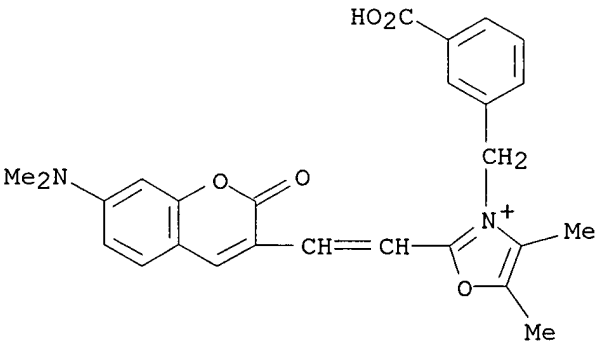
AB The title material comprises ≥1 hydrophilic colloidal layer containing a dye I [Z = atoms necessary to form 5- or 6-membered N-containing heterocyclyl ring; R1-R5 = H, monovalent group; R3-R4 and/or R4-R5 may combine to form ring; R6 = alkyl aryl alkenyl; L1-L4 = methine group; X- = anion; m = 1-2; n = 0, 1; p = 0, 0.5, 1;]. The dye can be quickly decolored during development and can provide images with excellent sharpness and less residual color.

IT **153411-23-5**
RL: USES (Uses)
(photog. films containing)

RN 153411-23-5 CAPLUS
CN Oxazolium, 3-[(3-carboxyphenyl)methyl]-2-[2-[7-(dimethylamino)-2-oxo-2H-1-benzopyran-3-yl]ethenyl]-4,5-dimethyl-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

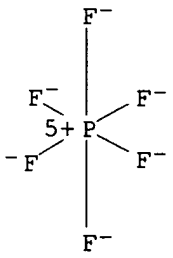
CM 1

CRN 153411-22-4
CMF C26 H25 N2 O5

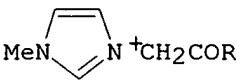


CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS



L22 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 8
ACCESSION NUMBER: 1989:534044 CAPLUS
DOCUMENT NUMBER: 111:134044
TITLE: Oral hypoglycemic agents. Discovery and structure-activity relationships of phenacylimidazolium halides
AUTHOR(S): Dominianni, Samuel J.; Yen, Terence T.
CORPORATE SOURCE: Lilly Res. Lab., Lilly Corp. Cent., Indianapolis, IN, 46285, USA
SOURCE: Journal of Medicinal Chemistry (1989), 32(10), 2301-6
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:134044
ED Entered STN: 14 Oct 1989
GI

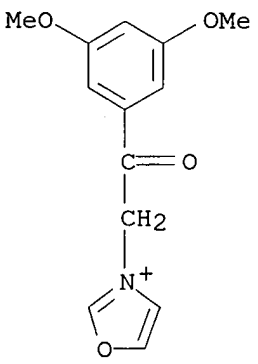


X⁻ I

AB A series of phenacylimidazolium halides, e.g., I (R = Ph, substituted Ph; X = Br, Cl, iodo) and related compds. were prepared and tested for blood glucose levels in viable, yellow, obese, diabetic mice following oral administration. I (R = 4-MeC6H4, 3-MeOC6H4, X = Br) produced redns. of blood glucose level ca. 40% 2 h after doses of 100 mg/kg p.o. Since these mice do not respond to sulfonylureas, the glucose-lowering activity of phenacylimidazolium salts in this model suggests a mechanism other than that of stimulating insulin secretion. Only phenacylimidazolium halides with electron-donating groups were active; other azolium salts, or variations in the phenacyl portion (alterations in the keto function; chain lengthening or extensive branching) produced inactive compds.

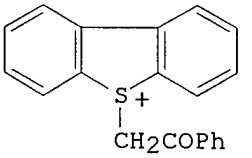
IT **121704-46-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and hypoglycemic activity of)

RN 121704-46-9 CAPLUS
CN Oxazolium, 3-[2-(3,5-dimethoxyphenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)



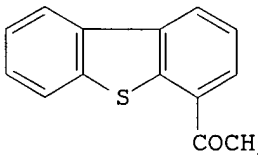
Br^-

L22 ANSWER 9 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 9
ACCESSION NUMBER: 1980:94001 CAPLUS
DOCUMENT NUMBER: 92:94001
TITLE: Competition between oxazolium and sulfonium salt formation in the acid-induced interaction of 2-diazoacetophenones with diaryl sulfides in acetonitrile
AUTHOR(S): Flowers, William T.; Holt, Geoffrey; McCleery, Patrick P.
CORPORATE SOURCE: Dep. Chem., Univ. Manchester Inst. Sci. Technol., Manchester, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1979), (6), 1485-9
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 92:94001
ED Entered STN: 12 May 1984
GI

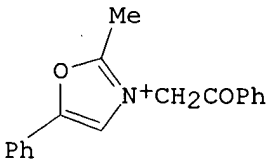


X^-

III



V



VI

AB Ph2S and dibenzothiophene reacted with PhCOCHN2 (I) and CF3SO3H in CH2Cl2 to give PhCOCH2S+Ph2 CF3SO3- (II) and sulfonium salt III (X = CF3SO3), resp. Under similar conditions, 4-(diazoacetyl)dibenzothiophene (IV) gave ester V. The interaction of I and CF3SO3H in MeCN gave oxazolium salt VI by N-phenacylation of the initially formed 2-methyl-5-phenyloxazole (VII); IV behaved analogously. I, CF3SO3H, and PhCN gave 2,5-diphenyloxazole which did not undergo N-phenacylation. Both II and III (X = ClO4) readily transfer their phenacyl groups to the N of VII.

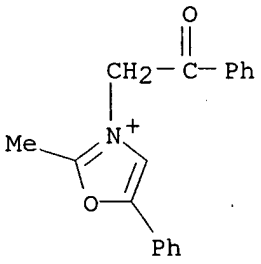
IT **72012-34-1P 72012-35-2P 72779-25-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 72012-34-1 CAPLUS

CN Oxazolium, 2-methyl-3-(2-oxo-2-phenylethyl)-5-phenyl-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

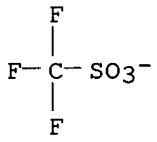
CM 1

CRN 72012-33-0
CMF C18 H16 N O2



CM 2

CRN 37181-39-8
CMF C F3 O3 S

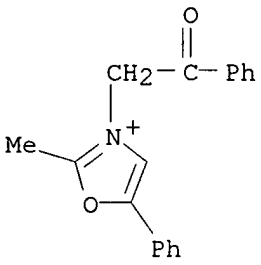


RN 72012-35-2 CAPLUS

CN Oxazolium, 2-methyl-3-(2-oxo-2-phenylethyl)-5-phenyl-, perchlorate (9CI) (CA INDEX NAME)

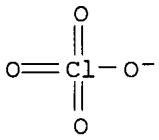
CM 1

CRN 72012-33-0
CMF C18 H16 N O2



CM 2

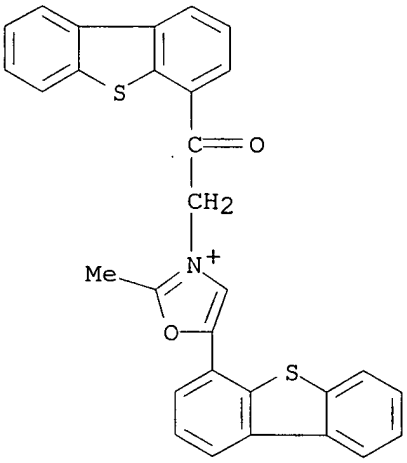
CRN 14797-73-0
CMF Cl O4



RN 72779-25-0 CAPLUS
CN Oxazolium, 5-(4-dibenzothienyl)-3-[2-(4-dibenzothienyl)-2-oxoethyl]-2-methyl-, salt with trifluoromethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

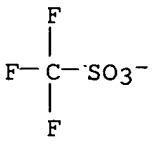
CM 1

CRN 72779-24-9
CMF C30 H20 N O2 S2

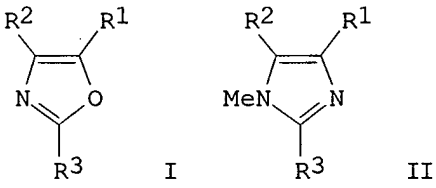


CM 2

CRN 37181-39-8
CMF C F3 O3 S



L22 ANSWER 10 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 10
ACCESSION NUMBER: 1977:171327 CAPLUS
DOCUMENT NUMBER: 86:171327
TITLE: Synthesis of N-alkylimidazoles from N-alkyloxazolium salts
AUTHOR(S): Kikugawa, Yasuo; Cohen, Louis A.
CORPORATE SOURCE: Fac. Pharm. Sci., Josai Univ., Saitama, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1976), 24(12), 3205-7
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 86:171327
ED Entered STN: 12 May 1984
GI



I II

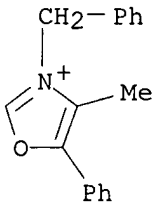
AB The oxazoles I (R1 = Me, Ph, Et; R2 = Me, Ph; R3 = H, Me, Et) were converted to the corresponding N-methylimidazoles by quaternization with MeO3SF and reaction of the products with EtOH-NH3. N-Benzyl-4-methyl-5-phenyloxazolium benzenesulfonate was also converted to the N-benzylimidazole, which was debenzylated with Na-NH3(l).

IT **62833-70-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with ammonia-ethanol)

RN 62833-70-9 CAPLUS
CN Oxazolium, 4-methyl-5-phenyl-3-(phenylmethyl)-, benzenesulfonate (9CI) (CA INDEX NAME)

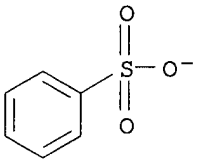
CM 1

CRN 62833-69-6
CMF C17 H16 N O



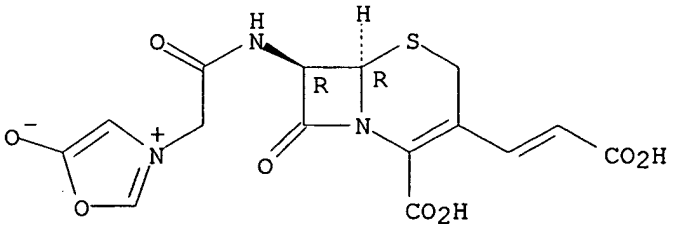
CM 2

CRN 3198-32-1
CMF C6 H5 O3 S



L22 ANSWER 11 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 11
ACCESSION NUMBER: 1976:706 CAPLUS
DOCUMENT NUMBER: 84:706
TITLE: Chemistry of cephalosporin antibiotics. 28. Preparation and biological activity of 3-(substituted)vinyl cephalosporins
AUTHOR(S): Webber, J. Alan; Ott, John L.; Vasileff, Robert T.
CORPORATE SOURCE: Lilly Res. Lab., Eli Lilly and Co., Indianapolis, IN, USA
SOURCE: Journal of Medicinal Chemistry (1975), 18(10), 986-92
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB Twenty title compds., [I:R = PhOCH2, PhCH(OH), Me, PhCH(CO2H), heterocycle; R1 = CO2Et, CN, CO2H], were prepared by reaction of the 3-formylcephem derivs. with the appropriate phosphorane derivs. followed by conversion to the several 7-acylamino forms. General gram-pos. activity was comparable to cephalothin [153-61-7] for many of the compds., and activity against a number of gram-neg. organisms was good, but activity against penicillin G resistant Staphylococcus aureus was low. The phenylmalonyl derivs., I; R = PhCH(CO2H), R1 = CO2Et di-Na salt [57079-60-4] and I; R = PhCH(CO2H), R1 = CO2H tri-Na salt [57079-61-5], had activity against Serratia marcescens and Pseudomonas aeruginosa. Structure-activity relations are discussed.
IT **57125-36-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and bactericidal activity of)
RN 57125-36-7 CAPLUS
CN Oxazolium, 3-[2-[[2-carboxy-3-(2-carboxyethenyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-7-yl]amino]-2-oxoethyl]-5-hydroxy-, inner salt, (6R-trans)- (9CI) (CA INDEX NAME)

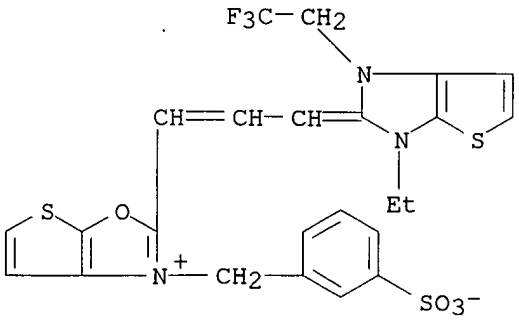
Absolute stereochemistry.
Double bond geometry unknown.



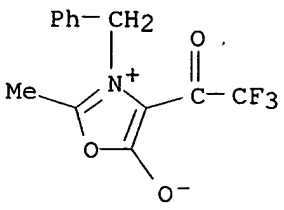
L22 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:139307 CAPLUS
DOCUMENT NUMBER: 132:201003
TITLE: New photographic sensitizing dye and silver halide emulsion containing the same for photographic material, heat-developable photographic material, and optical recording medium
INVENTOR(S): Tanaka, Tatsuo; Kita, Noriyasu; Fukusaka, Kiyoshi; Kagawa, Nobuaki
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 87 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000063690	A2	20000229	JP 1998-235688	19980821

PRIORITY APPLN. INFO.: JP 1998-235688 19980821
OTHER SOURCE(S): MARPAT 132:201003
ED Entered STN: 01 Mar 2000
GI For diagram(s), see printed CA Issue.
AB The photog. Ag halide emulsion contains new photog. sensitizing dye represented by I or II (R1, R2 = aliphatic group; Q = nonmetal atoms for forming 5- to 6-membered heterocycles; A1, A2 = atoms for forming methine dye; Y1, Y2 = O, S, Se, N, C; X = counter ion; n = number) and specific tabular Ag halide grains. The photog. material shows excellent photog. properties.
IT **259815-22-0**
RL: MOA (Modifier or additive use); USES (Uses)
(new photog. sensitizing dye in silver halide emulsion for photog. material)
RN 259815-22-0 CAPLUS
CN Thieno[3,2-d]oxazolium, 2-[3-[3-ethyl-1,3-dihydro-1-(2,2,2-trifluoroethyl)-2H-thieno[2,3-d]imidazol-2-ylidene]-1-propenyl]-1-[(3-sulfophenyl)methyl]-, inner salt (9CI) (CA INDEX NAME)



L22 ANSWER 13 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:98003 CAPLUS
DOCUMENT NUMBER: 132:237027
TITLE: Synthesis of highly substituted 5-(trifluoromethyl)ketoimidazoles using a mixed-solid/solution phase motif
AUTHOR(S): Hamper, Bruce C.; Jerome, Kevin D.; Yalamanchili, Gopi; Walker, Daniel M.; Chott, Robert C.; Mischke, Deborah A.
CORPORATE SOURCE: Monsanto Company, AG Sector, St. Louis, MO, 63167, USA
SOURCE: Biotechnology and Bioengineering (2000), 71(1), 28-37
CODEN: BIBIAU; ISSN: 0006-3592
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:237027
ED Entered STN: 11 Feb 2000
AB Using a combination of solid phase synthesis for the preparation of N-substituted N-acylglycines, followed by solution-phase ring transformation of trifluoromethylacyl munchnone intermediates, a library of 200 trisubstituted 5-trifluoromethylketo (TFMK) imidazoles was prepared In a sublibrary, bromoacetate resin was treated with 5 amines in parallel to give N-substituted glycines, followed by acylation with 12 acid chlorides to provide, upon cleavage from the resin, 60 individual N-substituted N-acylglycines. The glycines were converted to munchnones by treatment with trifluoroacetic anhydride, followed by reaction with benzamidine to give trisubstituted 5-TFMK-imidazoles. The structural content of the library was analyzed using PlateView of the LCMS results, and individual members were isolated by automated preparative LCMS.
IT **220354-32-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of highly substituted 5-(trifluoromethyl)ketoimidazoles using a mixed-solid/solution phase motif)
RN 220354-32-5 CAPLUS
CN Oxazolium, 5-hydroxy-2-methyl-3-(phenylmethyl)-4-(trifluoroacetyl)-, inner salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

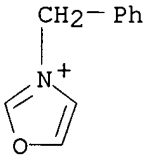
L22 ANSWER 14 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:38696 CAPLUS
DOCUMENT NUMBER: 128:147502
TITLE: Energy beam-sensitive activator composition containing onium borate complex acid generator and base generator and curable, positively working, or imaging composition containing it
INVENTOR(S): Toba, Taisei; Tanaka, Yasuhiro; Yasuike, Madoka
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 53 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10007709	A2	19980113	JP 1996-162782	19960624
PRIORITY APPLN. INFO.:			JP 1996-162782	19960624

OTHER SOURCE(S): MARPAT 128:147502
ED Entered STN: 23 Jan 1998
AB The activator composition contains an energy beam-sensitive acid generator comprising a complex of an onium cation and a borate anion [BYmZn]- (Y = F, Cl; Z = Ph substituted with ≥2 electron-withdrawing groups selected from F, cyano, NO2, and CF3; m = 0-3; n = 1-4; m + n = 4), an energy beam-sensitive base generator, and optionally a sensitizer. The curable composition contains the above activator composition, an acid-curable compound, and a base-curable compound The pos.-working composition comprises the above acid generator composition and a compound changing affinity or solubility to a developer by an acid-catalyzed reaction. The imaging composition comprises the above acid generator composition and a pigment precursor which colors by reaction with an acid. The activator composition is applicable for moldings, sealings, resists, inks, coatings, adhesives, dental fillings, printing plates, and holog. recording materials, etc. The acid generator shows improved sensitivity.
IT **198641-31-5 198641-33-7 198641-35-9**
RL: CAT (Catalyst use); USES (Uses)
(photoacid generator; curable, pos.-working, or imaging compns. containing onium borate complex energy beam-sensitive activator)
RN 198641-31-5 CAPLUS
CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

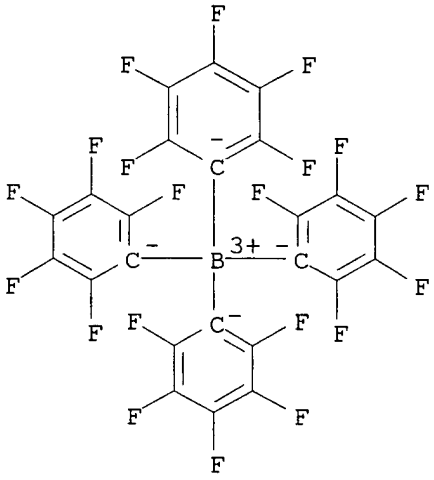
CM 1

CRN 198641-30-4
CMF C10 H10 N O



CM 2

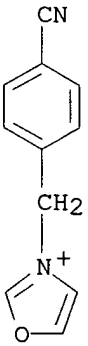
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-33-7 CAPLUS
CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

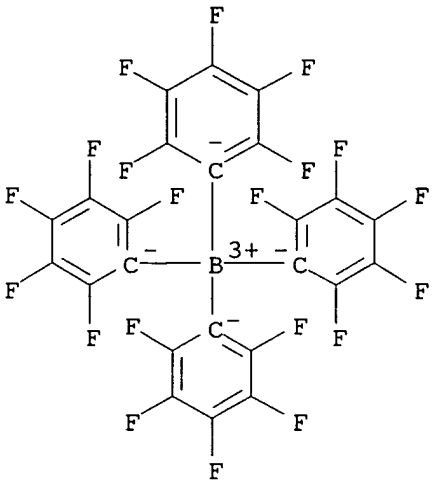
CM 1

CRN 198641-32-6
CMF C11 H9 N2 O



CM 2

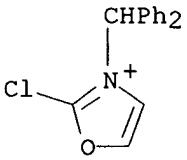
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-35-9 CAPLUS
CN Oxazolium, 2-chloro-3-(diphenylmethyl)-, tetrakis(pentafluorophenyl)borate (1-) (9CI) (CA INDEX NAME)

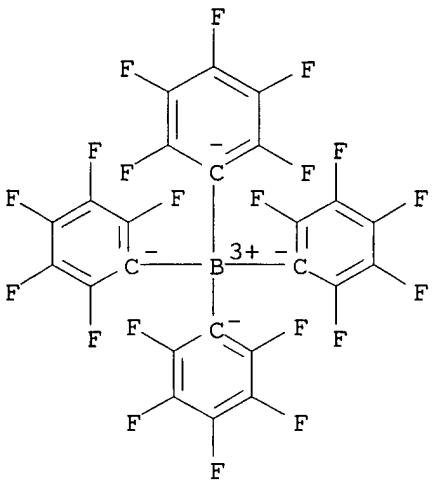
CM 1

CRN 198641-34-8
CMF C16 H13 Cl N O



CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS



L22 ANSWER 15 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:25410 CAPLUS
DOCUMENT NUMBER: 128:128759
TITLE: Radiation-sensitive acid generator compositions, curable compositions, positively working compositions, and image recording compositions thereof
INVENTOR(S): Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka; Ichimura, Kunihiro
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 51 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10001508	A2	19980106	JP 1996-155068	19960617

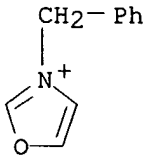
PRIORITY APPLN. INFO.: JP 1996-155068 19960617
OTHER SOURCE(S): MARPAT 128:128759
ED Entered STN: 16 Jan 1998
AB The acid generator compns. contain (A) radiation-sensitive acid generators comprising complexes of onium cations and borate anions [BYmZn]- (Y = F, Cl; Z = Ph which is substituted with ≥2 electron-accepting groups selected from F, CN, NO2, and CF3; m = 0-3; n = 1-4; m + n = 4), (B) agents which breed acids by reacting with the acids from A, and optionally (C) sensitizers. The pos.-working compns. are composed of the acid generator compns. and (D) acid-curable compds or (E) compds. which become more affinitive or soluble to developers by reactions using acidic catalysts. The image recording compns. are composed of the acid generator compds. and (F) pigment precursors which are colored by reacting with the generated acids. Application to moldings, sealings, resists, inks, coatings, adhesives, copying machines, and printers is indicated. Thus, an Al plate was coated with a composition comprising dimethylphenacylsulfonium tetrakis(pentafluorophenyl)borate 3, p-MeC6H4O3SOCH2CMe(OCMe)CO2CMe3 3, and Bakelite ERL 4221 100 parts and exposed to UV to give a tack-free coating.
IT **198641-31-5**, N-Benzyloxazolium tetrakis(pentafluorophenyl)borate
198641-33-7, N-(p-Cyanobenzyl)oxazolium

tetrakis(pentafluorophenyl)borate **198641-35-9**,
2-Chloro-3-benzhydryloxazolium tetrakis(pentafluorophenyl)borate
200573-26-8
RL: CAT (Catalyst use); USES (Uses)
(acid generator; radiation-sensitive catalyst compns. containing onium-borate complexes and promoters and their pos.-working and image recording compns.)

RN 198641-31-5 CAPLUS
CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

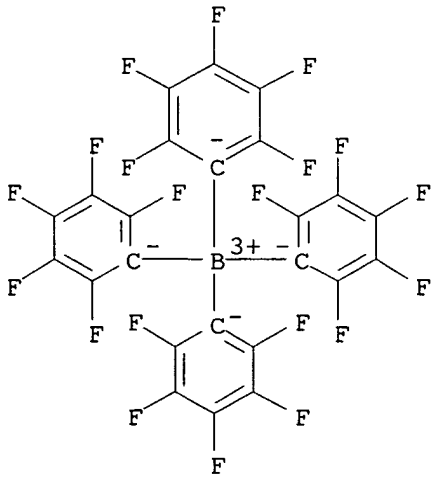
CM 1

CRN 198641-30-4
CMF C10 H10 N O



CM 2

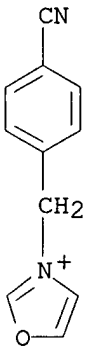
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-33-7 CAPLUS
CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

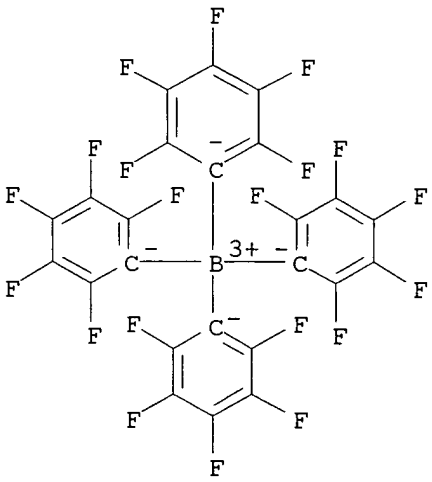
CM 1

CRN 198641-32-6
CMF C11 H9 N2 O



CM 2

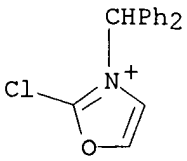
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-35-9 CAPLUS
CN Oxazolium, 2-chloro-3-(diphenylmethyl)-, tetrakis(pentafluorophenyl)borate (1-) (9CI) (CA INDEX NAME)

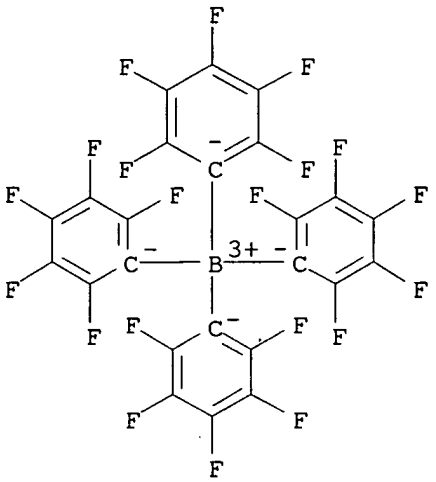
CM 1

CRN 198641-34-8
CMF C16 H13 Cl N O



CM 2

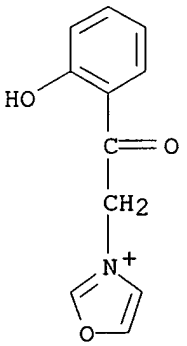
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 200573-26-8 CAPLUS
CN Oxazolium, 3-[2-(2-hydroxyphenyl)-2-oxoethyl]-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

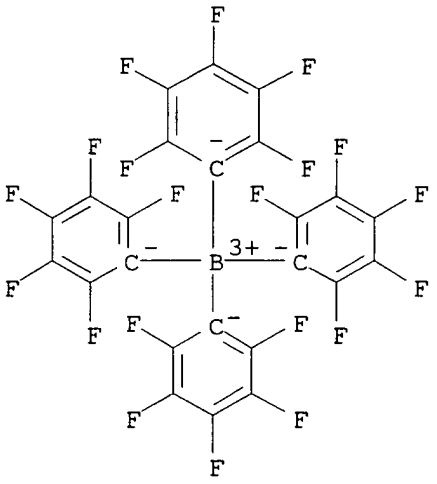
CM 1

CRN 200573-25-7
CMF C11 H10 N O3



CM 2

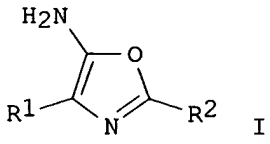
CRN 47855-94-7
CMF C24 B F20
CCI CCS



L22 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:116090 CAPLUS
DOCUMENT NUMBER: 128:128007
TITLE: Preparation of 5-ammoniooxazole and 5-amino-3-alkyloxazolium salts as pesticide intermediates
INVENTOR(S): Kameswaran, Venkataraman
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 816347	A1	19980107	EP 1997-304498	19970625
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
TW 381087	B	20000201	TW 1997-86108504	19970618
JP 10067760	A2	19980310	JP 1997-183258	19970625
CA 2208715	AA	19971228	CA 1997-2208715	19970626
AU 9727535	A1	19980115	AU 1997-27535	19970626
AU 714269	B2	19991223		
ZA 9705700	A	19981228	ZA 1997-5700	19970626
IL 121175	A1	20010430	IL 1997-121175	19970626
CN 1170721	A	19980121	CN 1997-113865	19970627
BR 9703760	A	19981110	BR 1997-3760	19970627

PRIORITY APPLN. INFO.: US 1996-672787 A 19960628
OTHER SOURCE(S): MARPAT 128:128007
ED Entered STN: 26 Feb 1998
GI



I

AB Title compds., e.g., acid salts of I [R1 = (un)substituted Ph, -furyl, -thienyl; R2 = CnH2n+1; n = 1-8] were prepared Thus, 4-ClC6H4CH(CN)NHCOCF3 was treated with CF3SO3H to give I.CF3SO3H (R1 = C6H4Cl-4, R2 = CF3).

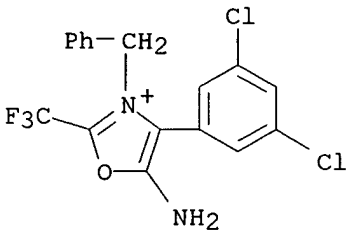
IT **201997-81-1P 201997-86-6P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of 5-ammoniooxazole and 5-amino-3-alkyloxazolium salts as pesticide intermediates)

RN 201997-81-1 CAPLUS

CN Oxazolium, 5-amino-4-(3,5-dichlorophenyl)-3-(phenylmethyl)-2-(trifluoromethyl)-, salt with 4-chlorobenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

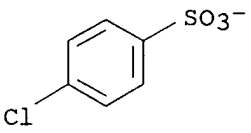
CM 1

CRN 201997-80-0
CMF C17 H12 Cl2 F3 N2 O



CM 2

CRN 45934-90-5
CMF C6 H4 Cl O3 S

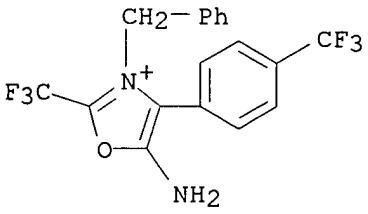


RN 201997-86-6 CAPLUS

CN Oxazolium, 5-amino-3-(phenylmethyl)-2-(trifluoromethyl)-4-[4-(trifluoromethyl)phenyl]-, salt with 4-chlorobenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

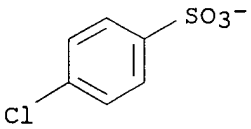
CM 1

CRN 201997-85-5
CMF C18 H13 F6 N2 O



CM 2

CRN 45934-90-5
CMF C6 H4 Cl O3 S



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 17 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:784233 CAPLUS
DOCUMENT NUMBER: 128:76169
TITLE: Radically polymerizable compositions and their cured products
INVENTOR(S): Toba, Yasumasa
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 35 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09316117	A2	19971209	JP 1996-139823	19960603
PRIORITY APPLN. INFO.:			JP 1996-139823	19960603

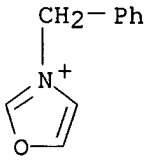
OTHER SOURCE(S): MARPAT 128:76169
ED Entered STN: 15 Dec 1997
AB The compns. contain (a) polymerization initiators of onium borate complexes made of onium cations and (BYmZn)- (Y = F, Cl; Z = Ph substituted by ≥2 groups selected from F, CN, NO2, and CF3; m = 0-3; n = 1-4; m + n = 4) and (b) radically polymerizable compds. The polymerization initiators have good solubility in organic materials and resins and generate acids (byproducts) in compds. during polymerization, which are removed by heating. The cured products of the compns. are useful for molding resins, casting resins, sealants, and resists, etc. Thus, a composition prepared from 3 parts dimethylphenacylsulfonium tetrakis(pentafluorophenyl)borate (polymerization initiators) and 100 parts pentaerythritol triacrylate was applied on an Al plate and UV-irradiated to give a cured membrane without tackiness, which was heated at 150° to give an acid-free composition
IT **198641-31-5 198641-33-7 198641-35-9**

200573-26-8
RL: CAT (Catalyst use); USES (Uses)
(polymerization initiators; radical polymerizable compns. containing generated acid-removable polymerization initiators)

RN 198641-31-5 CAPLUS
CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

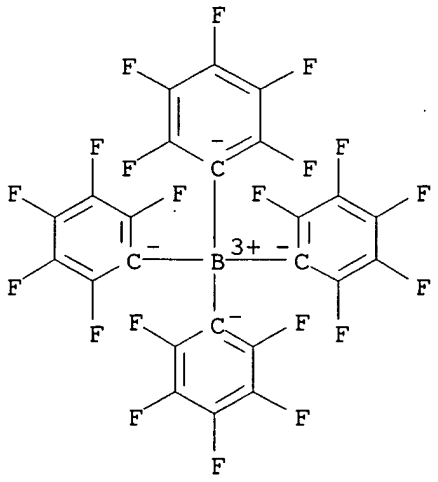
CM 1

CRN 198641-30-4
CMF C10 H10 N O



CM 2

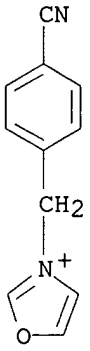
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-33-7 CAPLUS
CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

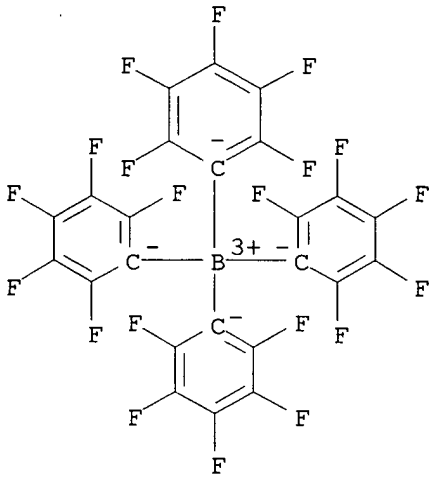
CM 1

CRN 198641-32-6
CMF C11 H9 N2 O



CM 2

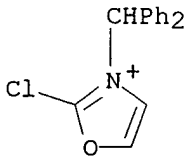
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-35-9 CAPLUS
CN Oxazolium, 2-chloro-3-(diphenylmethyl)-, tetrakis(pentafluorophenyl)borate (1-) (9CI) (CA INDEX NAME)

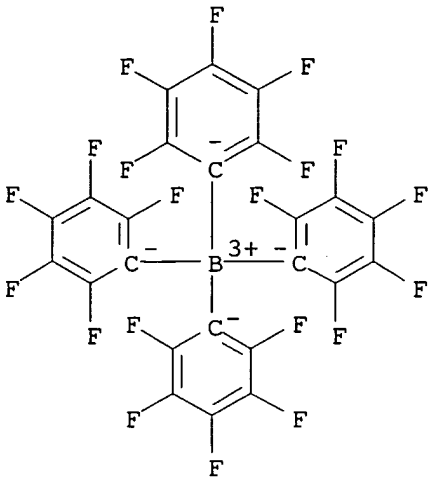
CM 1

CRN 198641-34-8
CMF C16 H13 Cl N O



CM 2

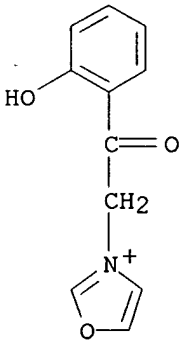
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 200573-26-8 CAPLUS
CN Oxazolium, 3-[2-(2-hydroxyphenyl)-2-oxoethyl]-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

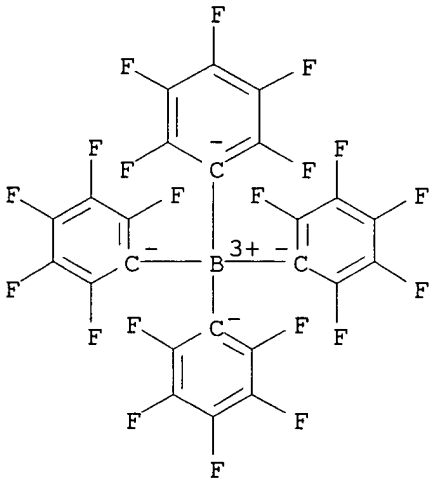
CM 1

CRN 200573-25-7
CMF C11 H10 N O3



CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS



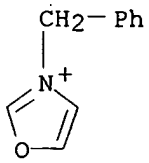
L22 ANSWER 18 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:762055 CAPLUS
DOCUMENT NUMBER: 128:95393
TITLE: Positive-working radiation-sensitive composition using onium borate complex as acid-generating agent
INVENTOR(S): Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 33 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09304931	A2	19971128	JP 1996-117204	19960513
JP 3605939	B2	20041222		
PRIORITY APPLN. INFO.:			JP 1996-117204	19960513
OTHER SOURCE(S):	MARPAT 128:95393			

ED Entered STN: 06 Dec 1997
AB The title composition contains an energy ray-sensitive acid-generating agent of an onium borate complex comprising an onium cation and a borate anion (BYmZn)- (Y = F or Cl; Z = Ph substituted for ≥2 electron-attracting groups selected from F, CN, NO2, and CF3; m = 0-3; n = 1-4, m + n = 4) and a compound of which the affinity for or solubility in developing solution increases upon the acid-catalyzed reaction. The composition shows high sensitivity in broader wavelength region and high contrast. Thus, an energy ray-sensitive composition containing poly(p-tert-butoxycarbonyloxystyrene) and dimethyphenacylsulfonium tetrakis(pentafluorophenyl)borate was coated on an Al substrate to give a presensitized plate.
IT **198641-31-5 198641-33-7 198641-35-9**
RL: DEV (Device component use); USES (Uses)
(radiation-sensitive composition containing onium borate as acid generator)
RN 198641-31-5 CAPLUS
CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

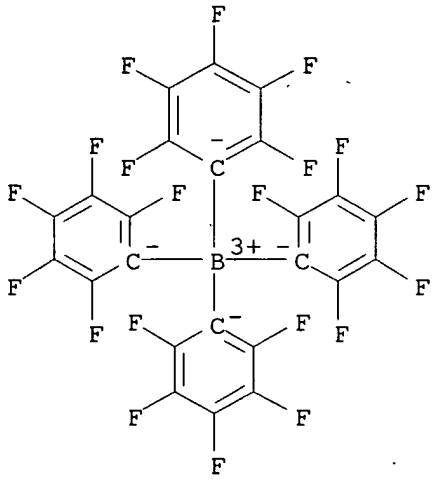
CM 1

CRN 198641-30-4
CMF C10 H10 N O



CM 2

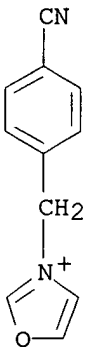
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-33-7 CAPLUS
CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

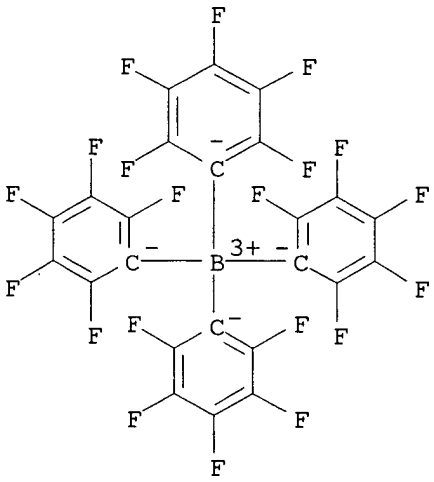
CM 1

CRN 198641-32-6
CMF C11 H9 N2 O



CM 2

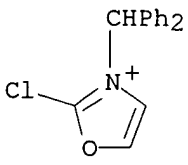
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-35-9 CAPLUS
CN Oxazolium, 2-chloro-3-(diphenylmethyl)-, tetrakis(pentafluorophenyl)borate (1-) (9CI) (CA INDEX NAME)

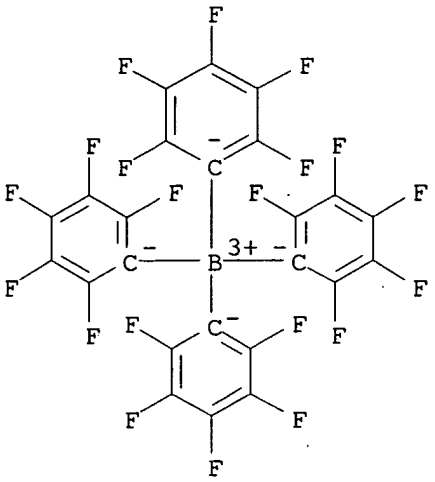
CM 1

CRN 198641-34-8
CMF C16 H13 Cl N O



CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS



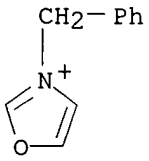
L22 ANSWER 19 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:681693 CAPLUS
DOCUMENT NUMBER: 127:364175
TITLE: Actinic ray-sensitive imaging composition, image formation medium and method of using same
INVENTOR(S): Toba, Yasumasa; Tanaka, Yasuhiro; Yasuike, Madoka
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 46 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09263063	A2	19971007	JP 1996-124382	19960520
PRIORITY APPLN. INFO.:			JP 1996-7973	19960122

OTHER SOURCE(S): MARPAT 127:364175
ED Entered STN: 27 Oct 1997
AB The title composition comprises a onium cation, an actinic ray-sensitive acid generator based on a borate [BYmZn]- (Y = F, Cl; Z = Ph substituted with 2 electron attractive groups of F, cyano, nitro, trifluoromethyl; m = 0-3; n =1-4; m + n = 4), a dye precursor capable of giving color by reacting with the generated acid, and a sensitizer or a polymer binder. Image forming medium and method using the composition are also claimed.
IT **198641-31-5 198641-33-7 198641-35-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(acid generator contained in actinic ray-sensitive imaging composition)
RN 198641-31-5 CAPLUS
CN Oxazolium, 3-(phenylmethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

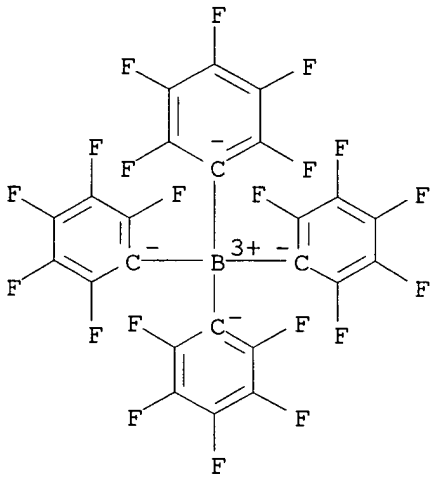
CM 1

CRN 198641-30-4
CMF C10 H10 N O



CM 2

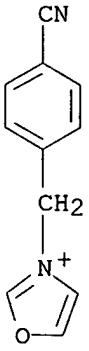
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-33-7 CAPLUS
CN Oxazolium, 3-[(4-cyanophenyl)methyl]-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

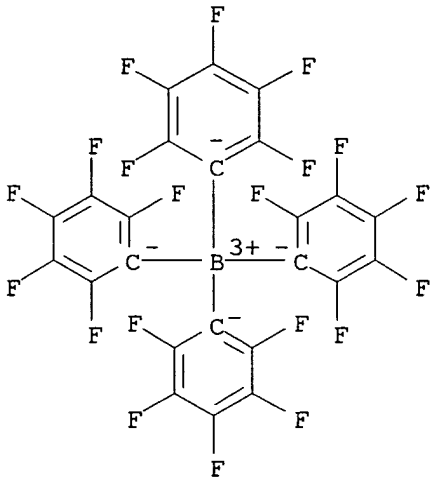
CM 1

CRN 198641-32-6
CMF C11 H9 N2 O



CM 2

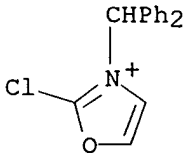
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 198641-35-9 CAPLUS
CN Oxazolium, 2-chloro-3-(diphenylmethyl)-, tetrakis(pentafluorophenyl)borate (1-) (9CI) (CA INDEX NAME)

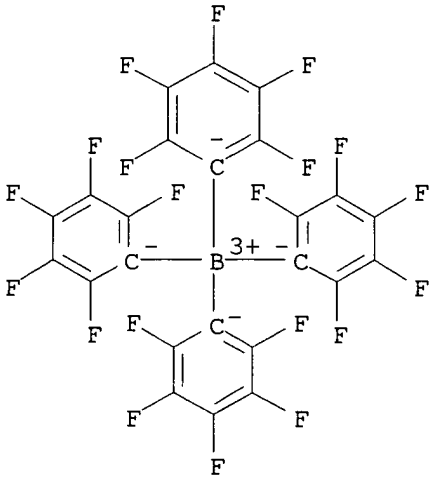
CM 1

CRN 198641-34-8
CMF C16 H13 Cl N O



CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS



L22 ANSWER 20 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:617534 CAPLUS
DOCUMENT NUMBER: 127:308066
TITLE: Odorless nontoxic energy beam-sensitive acid generators with good solubility, curable compositions containing them and cured products
INVENTOR(S): Toba, Yasumasa; Tanaka, Yasuhiro
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09241614	A2	19970916	JP 1996-45704	19960304
PRIORITY APPLN. INFO.:			JP 1996-45704	19960304

OTHER SOURCE(S): MARPAT 127:308066
ED Entered STN: 27 Sep 1997
AB The acid generators are obtained from specified aromatic onium borate compds. having substituted quaternary N-containing heterocyclic 5-membered ring cation moieties (which may have a second N, O or S atom at position distant from the 1st N atom such as imidazolium, oxazolium and thiazolium) and fluoro borate anion moieties bearing Ph groups substituted with electron-withdrawing groups, e.g., F, NO2, CN and azide groups, in place of previously known hexafluorophosphate and hexafluoroantimonate anions. The generators are used in compns. containing acid-curable compds., and optionally radical-polymerizable monomers, photosensitizers and radical initiators for speeding up their curing under radiation with energy beams. An example of the acid generator was N-benzylthiazolium tetrakis[3,5-bis(trifluoromethyl)phenyl]borate; the mixture of 1 part of which with 100 parts 3,4-epoxycyclohexylmethyl 3,4-

epoxycyclohexanecarboxylate (ERL-4221) could be cured with UV light.

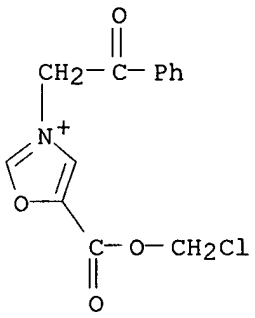
IT **197176-26-4P**, 5-Chloromethoxycarbonyl-3-phenacyloxazolium tetrakis(pentafluorophenyl)borate **197176-79-7P**, N-(p-Methoxyphenacyl)oxazolium tris(pentafluorophenyl)fluoroborate **197176-83-3P**, N-(p-Benzoylphenacyl)oxazolium tris[3,5-bis(trifluoromethyl)phenyl]fluoroborate **197176-94-6P**, 1-Phenacyl-2-methyloxazolium tetrakis(pentafluorophenyl)borate
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(odorless nontoxic energy beam-sensitive acid generators with good solubility, curable compns. containing them and cured products)

RN 197176-26-4 CAPLUS

CN Oxazolium, 5-[(chloromethoxy)carbonyl]-3-(2-oxo-2-phenylethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

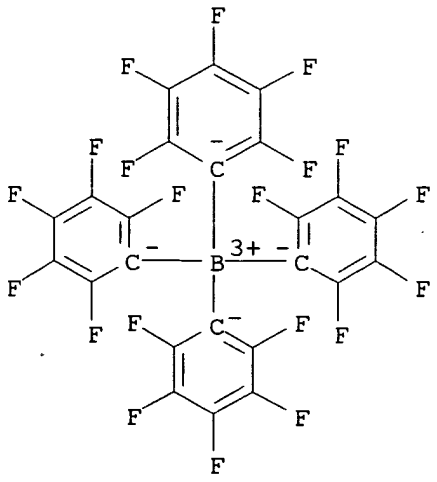
CM 1

CRN 197176-25-3
CMF C13 H11 Cl N O4



CM 2

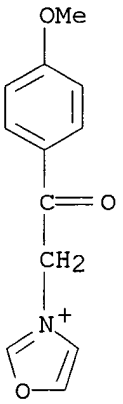
CRN 47855-94-7
CMF C24 B F20
CCI CCS



RN 197176-79-7 CAPLUS
CN Oxazolium, 3-[2-(4-methoxyphenyl)-2-oxoethyl]-, (T-4)-fluorotris(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

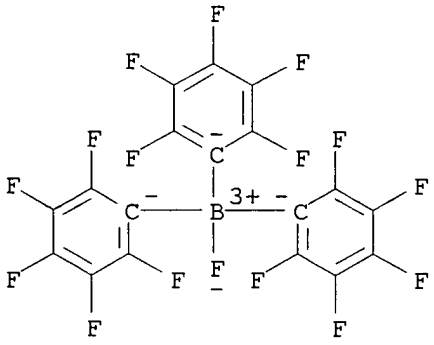
CM 1

CRN 197176-78-6
CMF C12 H12 N O3



CM 2

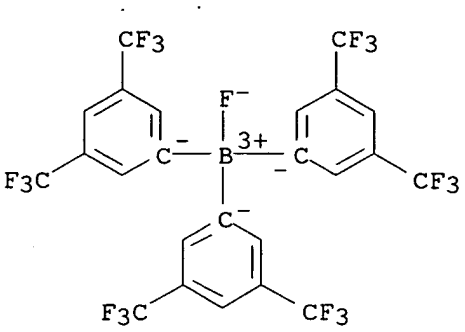
CRN 121827-59-6
CMF C18 B F16
CCI CCS



RN 197176-83-3 CAPLUS
CN Oxazolium, 3-[2-(4-benzoylphenyl)-2-oxoethyl]-, (T-4)-tris[3,5-bis(trifluoromethyl)phenyl]fluoroborate(1-) (9CI) (CA INDEX NAME)

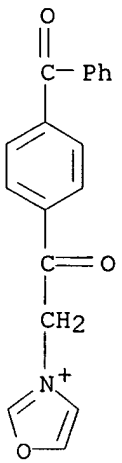
CM 1

CRN 197176-82-2
CMF C24 H9 B F19
CCI CCS



CM 2

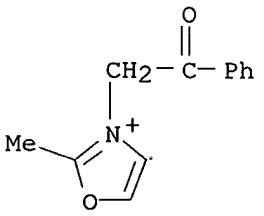
CRN 197176-81-1
CMF C18 H14 N O3



RN 197176-94-6 CAPLUS
CN Oxazolium, 2-methyl-3-(2-oxo-2-phenylethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)

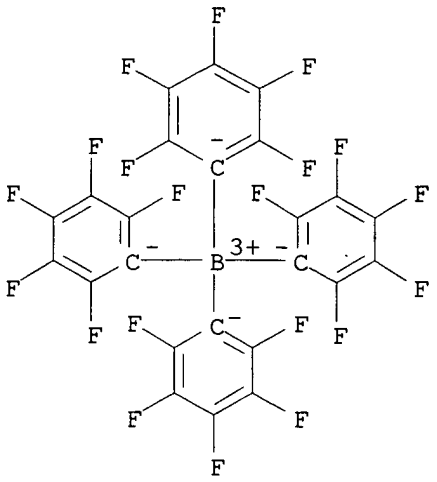
CM 1

CRN 197176-93-5
CMF C12 H12 N O2

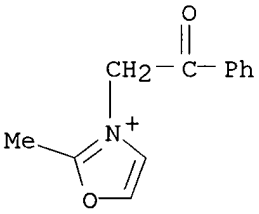


CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS



IT **197176-95-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; reaction in manufacture of energy beam-sensitive acid generators)
RN 197176-95-7 CAPLUS
CN Oxazolium, 2-methyl-3-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

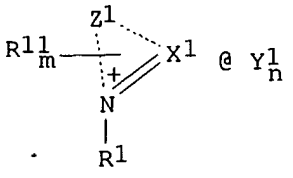


Br^-

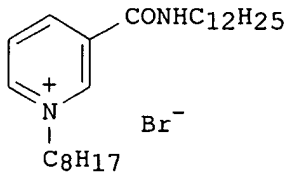
L22 ANSWER 21 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:424862 CAPLUS
DOCUMENT NUMBER: 125:71708
TITLE: Silver halide photographic material and processing thereof
INVENTOR(S): Hoshimya, Takashi; Ezoe, Toshihide
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 44 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08076314	A2	19960322	JP 1994-232448	19940902

PRIORITY APPLN. INFO.: JP 1994-232448 19940902
ED Entered STN: 18 Jul 1996
GI



I

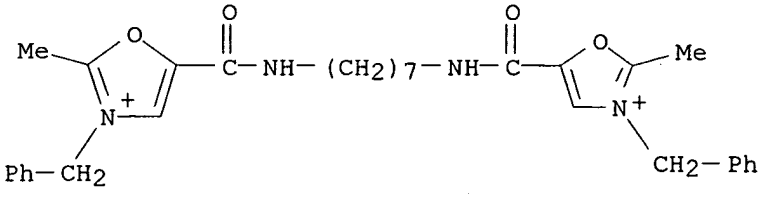


II

AB The title material contains a compound I (Z1 = nonmetal atoms required to form a 5- or 6-membered ring along with the N atom and X1; X1 = N, CR12; R1 = alkyl, alkenyl, alkynyl, aryl, heterocyclyl; R11, R12 = H, halo, substituent linking to the ring via C, O, N, or S atom; m = O to the maximum number to substitute the ring, when m ≥2, R11s may be different and may condense to form a ring; 2 kinds of radicals which are formed by elimination of any 1 H atom of I may link to form a bis-type structure; Y1 = counter ion; n = number required to keep charge balance; the total number of the C atoms in the substituent linking to the above 5- or 6-membered ring and in R1 is 15-40). The material is imagewise exposed and then processed with a developing solution containing a developing agent PC(:Y)CR71:CR72Q (R71, R72 = OH, amino, acylamino, alkylsulfonylamino, arylsulfonyl amino, alkoxycarbonyl amino, SH, alkylthio; P, Q = OH, CO2H, alkoxy, hydroxyalkyl, carboxyalkyl, sulfo, sulfoalkyl, amino, aminoalkyl, alkyl, aryl, atoms required to form a 5- to 7-membered ring along with the 2 vinyl C atoms to which R71 and R72 are substituted and the C atom linking to Y; Y = O, NR73; R73 = H, OH, alkyl,. acyl, hydroxyalkyl, sulfoalkyl, carboxyalkyl). The material provides high-contrast neg. images. Thus, a photog. film was prepared by using a Ag(Br,Cl) emulsion containing II.

IT **178496-05-4**
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(photog. film containing heterocyclic onium salt)

RN 178496-05-4 CAPLUS
CN Oxazolium, 5,5'-[1,7-heptanediylbis(iminocarbonyl)]bis[2-methyl-3-(phenylmethyl)-, dichloride (9CI) (CA INDEX NAME)



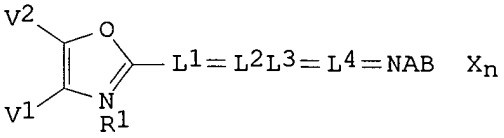
2 Cl^-

L22 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:641669 CAPLUS
DOCUMENT NUMBER: 121:241669
TITLE: Photographic materials using silver halide emulsion sensitized with hemicyanine dyes
INVENTOR(S): Kagawa, Nobuaki; Sanpei, Takeshi
PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06161013	A2	19940607	JP 1992-350517	19921116

PRIORITY APPLN. INFO.: JP 1992-350517 19921116
OTHER SOURCE(S): MARPAT 121:241669
ED Entered STN: 12 Nov 1994
GI

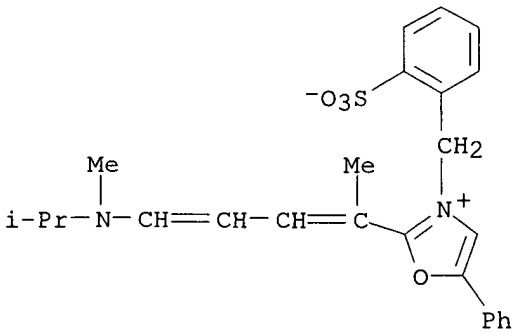


I

AB The photog. materials have a support that has a ≥1 photosensitive Ag halide emulsion layer, at least one of which containing Ag halide particles spectrally sensitized with ≥1 hemicyanine dye I [R1 = C≤10 aliphatic group substituted with water-sol group; V1-2 = H, alkyl, alkoxy, aryl, or V1 and V2 form a nonarom. condensed ring; A, B = alkyl or NAB = N-containing heterocycle; L1-4 = (un)substituted methine, X = anion required for cancelling total charge; n = number required for neutralizing charge of the mol.]. The materials show high spectral sensitivity in the blue region and low residual dye stain.

IT **158501-68-9**
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(photog. sensitizer, for blue region, with residual dye stain)

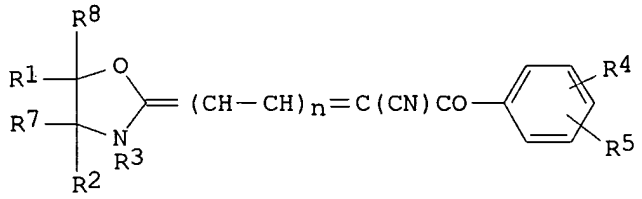
RN 158501-68-9 CAPLUS
CN Oxazolium, 2-[1-methyl-4-[methyl(1-methylethyl)amino]-1,3-butadienyl]-5-phenyl-3-[(2-sulfophenyl)methyl]-, inner salt (9CI) (CA INDEX NAME)



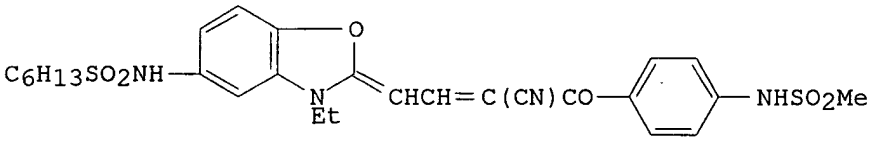
L22 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:14211 CAPLUS
DOCUMENT NUMBER: 112:14211
TITLE: Filter dyes for photographic elements
INVENTOR(S): Factor, Ronda Ellen; Diehl, Donald Richard
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 323728	A2	19890712	EP 1988-312053		19881220
EP 323728	A3	19891102			
EP 323728	B1	19931013			
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE					
AT 95828	E	19931015	AT 1988-312053		19881220
US 4900653	A	19900213	US 1988-290602		19881223
PRIORITY APPLN. INFO.:			US 1987-137491	A	19871223
			EP 1988-312053	A	19881220

OTHER SOURCE(S): MARPAT 112:14211
ED Entered STN: 06 Jan 1990
GI



I



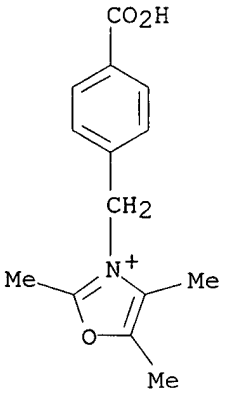
II

AB Dyes of the structure I [R1, R2 = alkyl, aryl, R1 and R2 together may form a ring; R3 = alkyl, aryl; R4, R5 = H, alkyl, aryl, CO2H, NHSO2R6; ≥1 of R4, R5, or a substituent on an aryl R3, on an aryl R1 or R2, or on an aryl ring formed by R1 and R2 is CO2H or NHSO2R6; R6 = R3; R7 = alkyl or together with R8 forms a double bond; R8 = H or double bond with R7; n = 1, 2], and a photog. element containing the above dye as optical filter agent are claimed. The dye does not disperse during coating, is fully solubilized during processing, and does not require a mordant. Thus, II was prepared and used in a photog. film to produce an improved Dmax and stability.

IT **124257-86-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, photog. filter dye from)

RN 124257-86-9 CAPLUS

CN Oxazolium, 3-[(4-carboxyphenyl)methyl]-2,4,5-trimethyl-, bromide (9CI) (CA INDEX NAME)



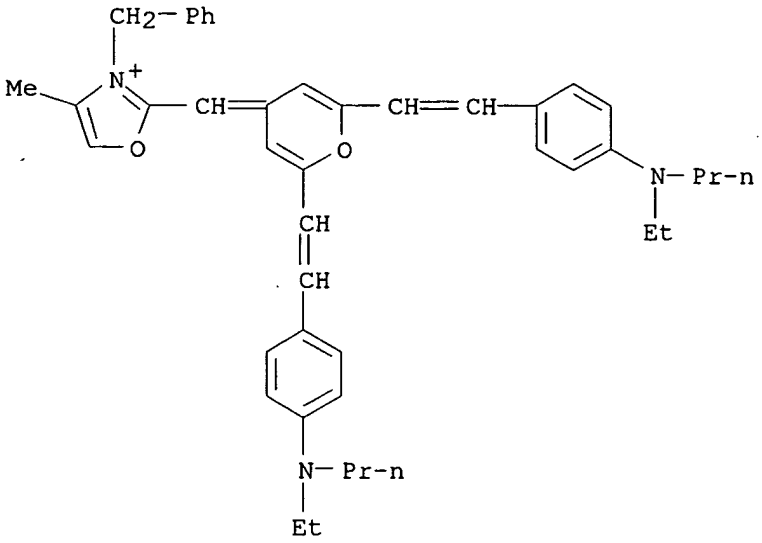
Br⁻

L22 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:187854 CAPLUS
DOCUMENT NUMBER: 108:187854
TITLE: Optical filter compositions
INVENTOR(S): Ukai, Toshinao; Okada, Hisashi; Hayashi, Koichi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62187301	A2	19870815	JP 1986-29622	19860213
PRIORITY APPLN. INFO.:			JP 1986-29622	19860213

ED Entered STN: 28 May 1988
GI For diagram(s), see printed CA Issue.
AB Compns. with improved lightfastness, useful for optical filters, contain ≥1 dyes of formula I [R = (un)substituted) alkyl, CN, acyl, (un)substituted aryl; R1 = (un)substituted alkyl; R2 = (un)substituted aryl, heterocyclic group; Z as required to form a 5- or 6-membered ring; X = anion; m = 0, 1, 2; n = 0, 1; p = 1, 2]. A composition of cellulose triacetate 170, (PhO)3PO 10, CH2Cl2 800, MeOH 160, and 2,6-bis[2-[4-(dimethylamino)phenyl]vinyl]-4-[(3-ethyl-2(3H)-benzothiazolylidene)methyl]pyrylium perchlorate 0.4 part was cast on a metal support to give a 25-μ optical filter, which absorbed light of 400-800 nm.
IT **105829-51-4**
RL: USES (Uses)
(cellulose triacetate compns. containing, for optical filters)
RN 105829-51-4 CAPLUS
CN Oxazolium, 2-[[2,6-bis[2-[4-(ethylpropylamino)phenyl]ethenyl]-4H-pyran-4-ylidene]methyl]-4-methyl-3-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● I^-

L22 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:77137 CAPLUS
DOCUMENT NUMBER: 108:77137
TITLE: Methine dyes
INVENTOR(S): Ukai, Toshinao; Okada, Hisashi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62168131	A2	19870724	JP 1985-274314	19851207
JP 05028815	B4	19930427		

PRIORITY APPLN. INFO.: JP 1984-258981 A1 19841207
JP 1985-226498 A1 19851011

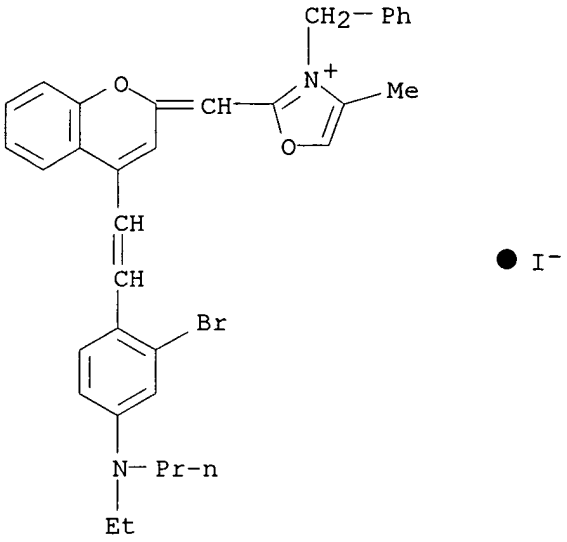
ED Entered STN: 05 Mar 1988
GI For diagram(s), see printed CA Issue.
AB The methine dyes I are prepared, where n = 0, 1; m = 0, 1, 2; R1 = (un)substituted alkyl; R2 = (un)substituted aryl or heterocyclic groups; R3, R4, R5 = H, alkyl, alkoxy, OH, (un)substituted amino; halogen; R3R4, R3R5, R4R5 = 6-membered condensed ring; Z = nonmetallic 5- or 6-membered (un)substituted ring member that may be condensed with another ring that may also form a condensed with with R1; X- = anion; p = 1, 2; p = 1 for inner salts. Thus, 3-ethyl-2-methylbenzothiazolium p-toluenesulfonate and 4-methyl-2H-chromene-2-thione were heated 15 h at 150°, mixed with MeOH-acetone, cooled, and treated with 60% HClO4, and then with with 1.1 g 4-dimethylaminobenzaldehyde and 30 mL Ac2O, and heated 45 min under reflux

to give 0.4 g II.

IT **112757-78-5P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 112757-78-5 CAPLUS

CN Oxazolium, 2-[[4-[2-[2-bromo-4-(ethylpropylamino)phenyl]ethenyl]-2H-1-benzopyran-2-ylidene]methyl]-4-methyl-3-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)



L22 ANSWER 26 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:498210 CAPLUS
DOCUMENT NUMBER: 107:98210
TITLE: Polymethine dyes
INVENTOR(S): Ukai, Toshinao; Okada, Hisashi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62084158	A2	19870417	JP 1985-225175	19851009
JP 05083588	B4	19931126		
PRIORITY APPLN. INFO.:			JP 1985-225175	19851009

ED Entered STN: 19 Sep 1987

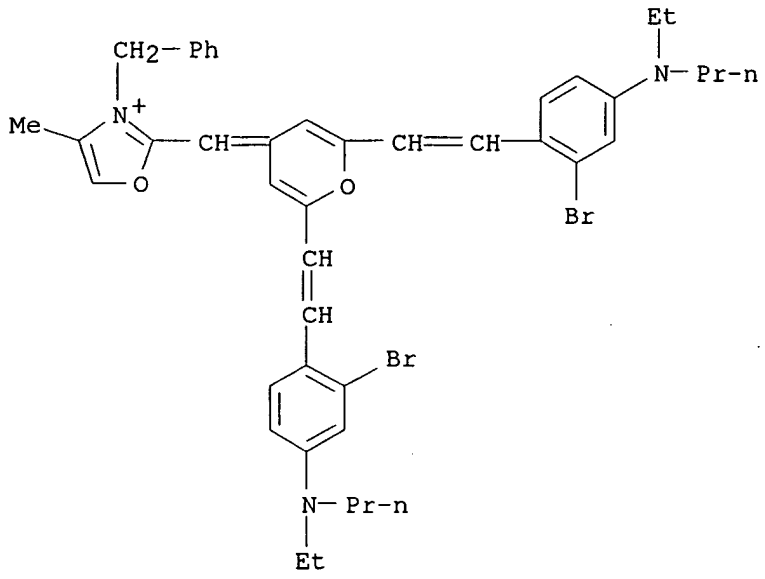
GI For diagram(s), see printed CA Issue.

AB Polymethines were prepared having the general formula I [n = 0, 1; m = 0-2; R1 = (un)substituted alkyl; R2 = substituted aryl; Z = 5- or 6-membered ring member; X- = anion; p = 1, 2]. Thus, 3-ethyl-2-[(2,6-dimethyl-4H-pyran-4-ylidene)methyl]benzothiazolium p-toluenesulfonate was treated with 2-amino-4-dimethylaminobenzaldehyde in Ac2O at 100° for 60 min and stirred with aqueous NaClO4 to give dark purple II, λmax (MeOH) 608 nm and εmax (MeOH) 4.80 + 104.

IT **110067-06-6P**
RL: IMF (Industrial manufacture); PREP (Preparation)

(preparation of)
RN 110067-06-6 CAPLUS
CN Oxazolium, 2-[[2,6-bis[2-[2-bromo-4-(ethylpropylamino)phenyl]ethenyl]-4H-pyran-4-ylidene]methyl]-4-methyl-3-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● I^-

L22 ANSWER 27 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:197833 CAPLUS
DOCUMENT NUMBER: 106:197833
TITLE: Methine dyes
INVENTOR(S): Ukai, Toshinao; Okada, Hisashi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62001754	A2	19870107	JP 1985-141755	19850628
JP 07045630	B4	19950517		
PRIORITY APPLN. INFO.:			JP 1985-141755	19850628

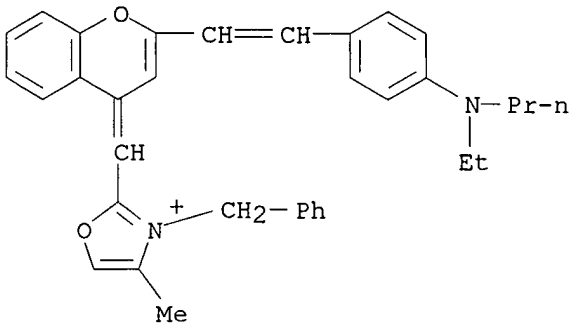
ED Entered STN: 13 Jun 1987
GI For diagram(s), see printed CA Issue.
AB Methine dyes useful in filters, photog., and lasers and useful for dyeing pulp were prepared having the general formula I [n = 0, 1; m = 1, 2; R1 = (un)substituted alkyl; R2 = (un)substituted aryl, heterocyclic group; R3, R4 = H, alkyl, alkoxy, OH, (un)substituted amino, halogen, or R3R4 =

6-membered ring member; Z = group of atoms to form 5- or 6-membered ring; X- = anion; p = 1, 2]. 3-Ethyl-2-[(2-methyl-4H-chromen-4-ylidene)methyl]benzothiazolium perchlorate was heated with 4-Me2NC6H4CHO in Ac2O at 150° for 30 min under reflux to give greenish black I (n = 0; m = 1; R1 = ethyl; o-C6H4S; R2 = p-C6H4NMe2; R3 = R4 = H; X = ClO4; p = 2).

IT **108029-66-9P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 108029-66-9 CAPLUS

CN Oxazolium, 2-[[2-[2-[4-(ethylpropylamino)phenyl]ethenyl]-4H-1-benzopyran-4-ylidene]methyl]-4-methyl-3-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)



● I^-

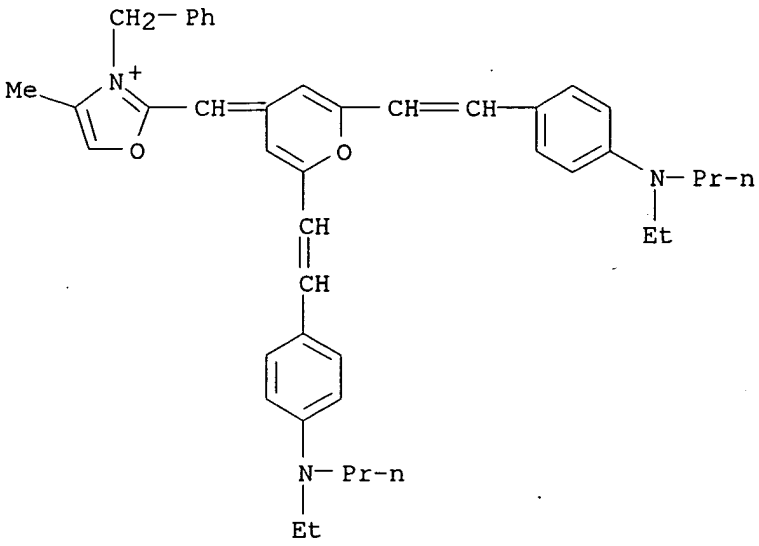
L22 ANSWER 28 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:147010 CAPLUS
DOCUMENT NUMBER: 106:147010
TITLE: Silver halide color photographic material with improved photosensitiivy
INVENTOR(S): Ukai, Toshinao; Okada, Hisashi; Takei, Haruo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61169832	A2	19860731	JP 1985-10269	19850123

PRIORITY APPLN. INFO.: JP 1985-10269 19850123
ED Entered STN: 01 May 1987
GI For diagram(s), see printed CA Issue.
AB A spectrally-sensitized Ag halide photog. film is obtained by using ≥1 Ag halide emulsion layer containing ≥1 sensitizer dye I [n = 0, 1; m = 0, 1, 2; R1 = alkyl; R2 = aryl, heterocyclyl; Z = atomic group required to form 5- or 6-membered heterocycle; X = anion; p = 1, 2] and ≥1 compound selected from II [A = divalent aromatic moiety, R11, R12, R13, R14 = H, OH, alkyl, alkoxy, aryloxy, halo, heterocyclyl, heterocycylthio, arylthio, amino, aryl, mercapto; ≥1 of A, R11, R12, R13, R14 contains sulfo group; W = CH, N].

IT **105829-51-4**
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. sensitizer)
RN 105829-51-4 CAPLUS
CN Oxazolium, 2-[[2,6-bis[2-[4-(ethylpropylamino)phenyl]ethenyl]-4H-pyran-4-ylidene]methyl]-4-methyl-3-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● I^-

L22 ANSWER 29 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:186328 CAPLUS
DOCUMENT NUMBER: 106:186328
TITLE: Light-sensitive photographic element
INVENTOR(S): Ukai, Toshinao; Okada, Hisashi; Takei, Haruo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61167940	A2	19860729	JP 1985-8765	19850121

PRIORITY APPLN. INFO.: JP 1985-8765 19850121
OTHER SOURCE(S): CASREACT 106:186328
ED Entered STN: 29 May 1987
GI For diagram(s), see printed CA Issue.
AB A photog. element comprising a substrate, Ag-halide emulsion layer(s) and other layer(s) has ≥1 layer containing ≥1 spectral sensitizer I (n = 0, 1; m = 0, 1, 2; R = alkyl; R1 = aryl, heterocyclic group; A = 5-

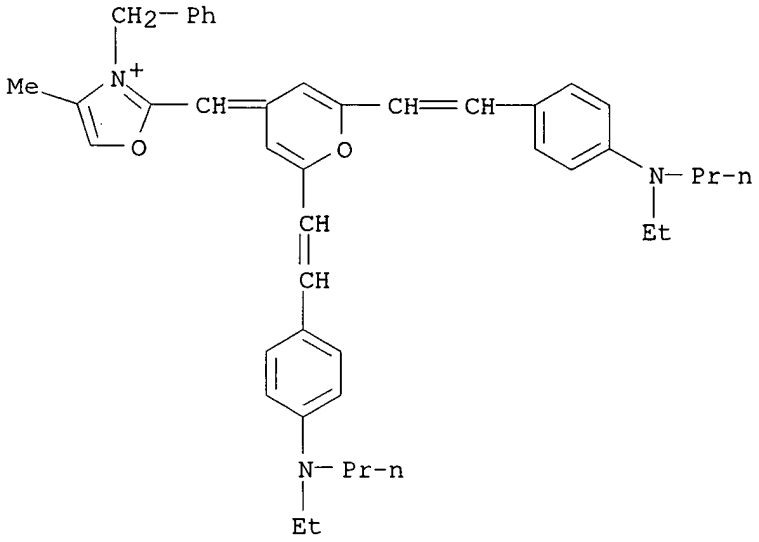
or 6-membered heterocyclic ring (condensed ring may be included); X = anion; P = 1, 2; P = 1 when intramol. salt is formed). Thus, a Ag(Br,Cl,I)-gelatin emulsion (Br/Cl/I = 29.5/70/0.5 in molar ratio, S-sensitized) containing dye I (A = benzothiazolyl; R = Et; n = 0; m = 1; R1 = P-diethylaminophenyl; X- = ClO4; P = 2) (8 + 10-5 mol/Kg emulsion) and other additives was coated on a film substrate. The obtained material showed spectral sensitivity between 530-750 nm with the maximum at 630-640 nm.

IT **105829-51-4**
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. spectral sensitizer)

RN 105829-51-4 CAPLUS

CN Oxazolium, 2-[[2,6-bis[2-[4-(ethylpropylamino)phenyl]ethenyl]-4H-pyran-4-ylidene]methyl]-4-methyl-3-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

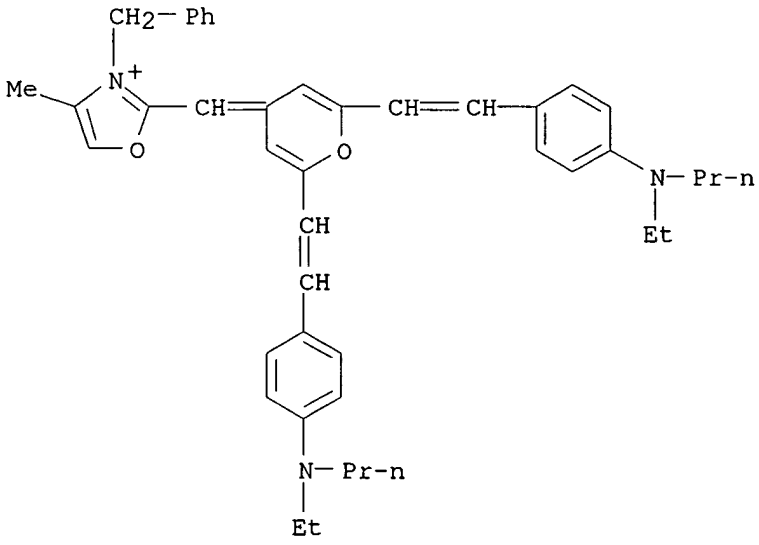
● I^-

L22 ANSWER 30 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:19996 CAPLUS
DOCUMENT NUMBER: 106:19996
TITLE: Methine dyes
INVENTOR(S): Ukai, Toshinao; Okada, Hisashi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61138666	A2	19860626	JP 1984-261402	19841211

JP 04005069 B4 19920130
PRIORITY APPLN. INFO.: JP 1984-261402 19841211
ED Entered STN: 24 Jan 1987
GI For diagram(s), see printed CA Issue.
AB Methine dyes were prepared having the general formula I (n = 0, 1; m = 0, 1, 2; R = (un)substituted alkyl; R1 = (un)substituted aryl, heteroaryl; Z = nonmetallic atom group needed to complete 5- or 6-membered heterocycle; X- = anion; p = 1 (in case of inner salt), 2]. Thus, 3-ethyl-2-[(2,6-dimethyl-4H-pyran-4-ylidene)methyl]benzothiazolium p-toluenesulfonate was treated with p-Me2NC6H4CHO in the presence of NH4OAc in EtOH at 100° for 60 min under reflux to obtain 32% brown II, λmax (MeOH) 614 nm, εmax (MeOH) 4.90 + 104.
IT **105829-51-4P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 105829-51-4 CAPLUS
CN Oxazolium, 2-[[2,6-bis[2-[4-(ethylpropylamino)phenyl]ethenyl]-4H-pyran-4-ylidene]methyl]-4-methyl-3-(phenylmethyl)-, iodide (9CI) (CA INDEX NAME)

PAGE 1-A



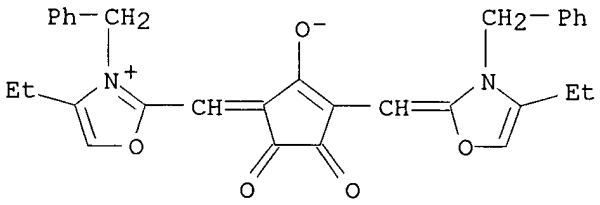
PAGE 2-A

● I⁻

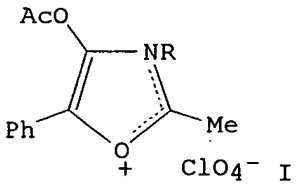
L22 ANSWER 31 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:581096 CAPLUS
DOCUMENT NUMBER: 101:181096
TITLE: Photoreceptor for electrophotography
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58118650	A2	19830714	JP 1982-1497	19820107
JP 03038583	B4	19910611		

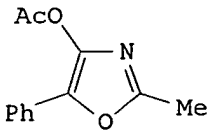
PRIORITY APPLN. INFO.: JP 1982-1497 19820107
ED Entered STN: 10 Nov 1984
GI For diagram(s), see printed CA Issue.
AB In a photoreceptor for electrophotog. having charge-generation and charge-transport layers, the charge-generation layer contains ≥1 cyanine dye I and/or II (R, R1 = substituted or unsubstituted alkyl, cyclic alkyl, allyl, substituted or unsubstituted aralkyl, or substituted or unsubstituted aryl; Z, Z1 = nonmetallic atoms necessary to complete a substituted or unsubstituted heterocyclic ring; M = a cation; and X = an anion). Thus, an Al plate having an adhesive layer was coated with a composition containing II (Z, Z1 = III; R, R1 = Et) and poly(vinyl butyral) to form a charge-generation layer and then with a composition containing poly(4,4'-dihydroxydiphenyl-2,2-propane carbonate) and p-Et2NC6H4CH:NHPh2 to prepare a charge-transport layer. The resultant photoreceptor had improved charging properties.
IT **92135-27-8**
RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. photoreceptor charge-generating agent)
RN 92135-27-8 CAPLUS
CN Oxazolium, 4-ethyl-2-[[3-[[4-ethyl-3-(phenylmethyl)-2(3H)-oxazolylidene]methyl]-2-hydroxy-4,5-dioxo-2-cyclopenten-1-ylidene]methyl]-3-(phenylmethyl)-, inner salt (9CI) (CA INDEX NAME)



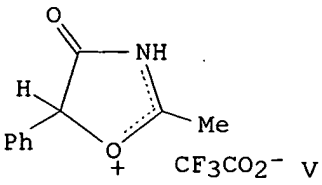
L22 ANSWER 32 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:162574 CAPLUS
DOCUMENT NUMBER: 96:162574
TITLE: 4-Acetoxyoxazolium salts
AUTHOR(S): Ryabukhin, Yu. I.; Karpenko, V. D.; Dorofeenko, G. N.
CORPORATE SOURCE: Rostov. Gos. Univ., Rostov, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1982), 18(1), 230-1
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 96:162574
ED Entered STN: 12 May 1984
GI



I



IV



V

AB HOCHPhCONHR and Ac2O-HClO4 gave title salts I [R = H (II), CH2Ph (III)]. II and H2O gave IV; III gave AcOCHPhCONHCH2Ph. II and CF3CO2H gave V.

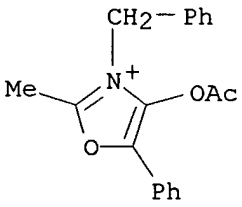
IT **81384-42-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

RN 81384-42-1 CAPLUS

CN Oxazolium, 4-(acetyloxy)-2-methyl-5-phenyl-3-(phenylmethyl)-, perchlorate (9CI) (CA INDEX NAME)

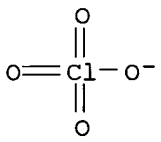
CM 1

CRN 81384-41-0
CMF C19 H18 N O3



CM 2

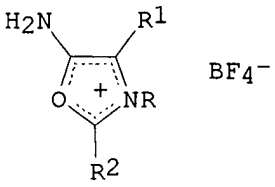
CRN 14797-73-0
CMF Cl O4



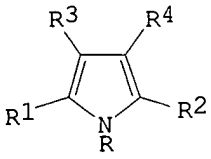
L22 ANSWER 33 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:	1980:180928 CAPLUS
DOCUMENT NUMBER:	92:180928
TITLE:	Synthetic uses of open-chain analogs of Reissert compounds
AUTHOR(S):	McEwen, William E.; Grossi, Anthony V.; MacDonald, Russell J.; Stamegna, Andrew P.
CORPORATE SOURCE:	Dep. Chem., Univ. Massachusetts, Amherst, MA, 01003, USA
SOURCE:	Journal of Organic Chemistry (1980), 45(7), 1301-8 CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 92:180928
ED Entered STN: 12 May 1984
GI



II



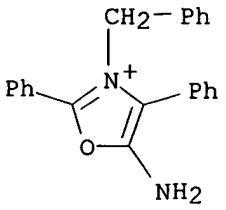
III, $R^1=R^2=Ph$, $R^3=R^4=CO_2Me$
IV, $R=R^3=H$, $R^1=Ph$, $R^2=Bz$, $R^4=CO_2Et$
VI, $R=R^1=R^2=Ph$, $R^3=H$, $R^4=CO_2Me$

AB Open-chain analogs, RN(COR2)CHR1CN (I, R = Ph, PhCH2, p-ClC6H4, p-MeOC6H4, Me(CH2)5, cyclohexyl; R1 = Ph, H, o-, m-, p-ClC6H4, 3,4-(MeO)2C6H3, o-, m-MeOC6H4, Bu; R2 = Ph, Me), of Reissert compds. are obtained by reaction of R1CH(OH)CN with RNH2, the resulting aminonitriles, RNHCHR1CN, then being acylated. Hydrofluoroborate salts, II, of I, are prepared by reaction with fluoroboric acid in HOAc. The salts, II, undergo 1,3-dipolar addition reactions with reactive alkynes to give substituted pyrroles and with Et acrylate to give a different type of substituted pyrrole, the initial step in this instance being a Diels-Alder reaction. Thus, addition of MeO2CC.tplbond.CCO2Me to II (R1 = R2 = Ph) gave III (R = Ph, m-ClC6H4, p-MeOC6H4, PhCH2); and addition of H2C:CHCO2Et to II (R = R1 = R2 = Ph) gave IV. I also undergo base-catalyzed reactions, such as alkylation with R5Br to provide R2CONRCR1R5CN (R5 = PhCH2, Bu, α-naphthylmethyl, R-R2 = as above), which, in turn, undergo cleavage reactions in ethanolic alkali to give ketones R1R5CO. A conjugate addition reaction of the anion BzNPhC-PhCN (V) to Me acrylate to give, after subsequent steps, VI was demonstrated. α-Anilino ketones, PhNHCHRCOR1, result when the anion V is treated with aldehydes, the initial reaction mixts. being subjected to subsequent alkaline hydrolysis. Finally, N-benzyl Reissert analogs give desoxybenzoins plus benzonitriles on treatment with NaH in THF.

IT **72867-58-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and addition reactions. of)
RN 72867-58-4 CAPLUS
CN Oxazolium, 5-amino-2,4-diphenyl-3-(phenylmethyl)-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

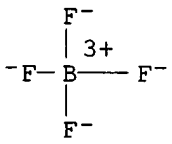
CM 1

CRN 72867-57-3
CMF C22 H19 N2 O

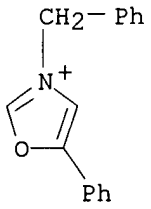


CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

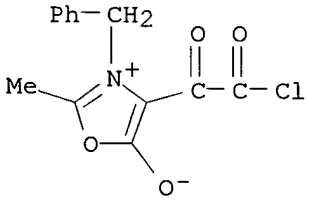


L22 ANSWER 34 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:536087 CAPLUS
DOCUMENT NUMBER: 81:136087
TITLE: Pyrimidine derivatives and related compounds. LXXXV. Reactions of oxazolium salts with dialkyl acylphosphonates. Novel synthesis of 1,4-oxazin-3-one and azetidin-2-one derivatives
AUTHOR(S): Takamizawa, Akira; Sato, Hisao
CORPORATE SOURCE: Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1974), 22(7), 1526-41
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB Reaction of oxazolium salts (I, R = PhCH2, Me, 4-amino-2-methyl-5-pyrimidinylmethyl; R1 = H, Me, Et, Ph; R2 = Me, Et, Ph; X = Cl, Br, I) with (R3O)2P(O)COR4 (II; R3 = Me, Et; R4 = Me, Ph) in the presence of Et3N afforded 1,4-oxazin-3-one (III) and/or azetidin-2-one derivs. (IV). In the reaction of I (R = CH2Ph, Me; R2 = H, R3 = Ph) with II (R3 = Me, R4 = Ph), stable intermediates PhCOCH2NRCOCHPhOP(O)(OMe)2, were isolated. The mechanism of this reaction involving ring expansion and ring contraction, substituent effects on the reactivity, and stereochem. of IV are discussed.
IT **54026-87-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and reaction rates with dialkyl acylphosphonates)
RN 54026-87-8 CAPLUS
CN Oxazolium, 5-phenyl-3-(phenylmethyl)-, chloride (9CI) (CA INDEX NAME)

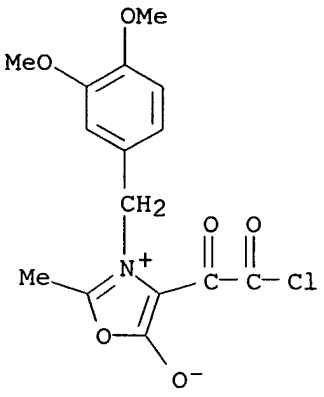


Cl^-

L22 ANSWER 35 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1967:10868 CAPLUS
DOCUMENT NUMBER: 66:10868
TITLE: Mesoinoic oxazolones. A new synthesis and electrophilic substitution reaction
AUTHOR(S): Burrows, W. Dickinson
CORPORATE SOURCE: U.S. Army Natick Labs., Natick, MA, USA
SOURCE: Journal of Organic Chemistry (1966), 31(10), 3435-6
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB Attempting to prepare the acid chloride of N-acetyl-N-benzylglycine by treatment with (COCl)2 gave instead anhydro-3-benzyl-4-chloroglyoxyloyl-5-hydroxy-2-methyl-1,3-oxazolium hydroxide (I). This structure was supported by ir and N.M.R. analyses. Anhydro-3-(3,4-dimethoxybenzyl)-4-chloroglyoxyloyl-5-hydroxy-2-methyl-1,4-oxazolium hydroxide was similarly prepared
IT **13099-80-4P 13099-81-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 13099-80-4 CAPLUS
CN Oxazolium, 3-benzyl-4-(chloroglyoxyloyl)-5-hydroxy-2-methyl-, hydroxide, inner salt (8CI) (CA INDEX NAME)



RN 13099-81-5 CAPLUS
CN Oxazolium, 4-(chloroglyoxyloyl)-5-hydroxy-2-methyl-3-veratryl-, hydroxide, inner salt (8CI) (CA INDEX NAME)



L22 ANSWER 36 OF 38 USPATFULL on STN
ACCESSION NUMBER: 90:11240 USPATFULL
TITLE: Photographic elements containing filter dye particle dispersions
INVENTOR(S): Factor, Ronda E., Rochester, NY, United States
Diehl, Donald R., Rochester, NY, United States
PATENT ASSIGNEE(S): Eastman Kodak Company, Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4900653		19900213
APPLICATION INFO.:	US 1988-290602		19881223 (7)

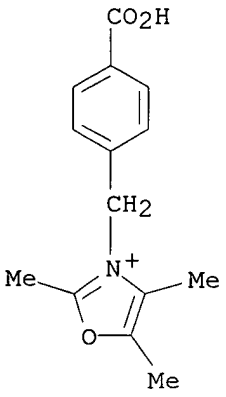
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1987-137491, filed on 23 Dec 1987, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Brammer, Jack P.
LEGAL REPRESENTATIVE: Marshall, Paul L.
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
LINE COUNT: 460
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Dyes according to the formula: ##STR1## are useful as filter dyes in photographic elements. In this formula, n is 1 or 2. R.sub.1 and R.sub.2 are each independently substituted or unsubstituted alkyl or substituted or unbsubstituted aryl, or together represent the atoms necessary to complete a substituted or unsubstituted 5- or 6-membered ring. Also, if R.sub.7 is substituted or unsubstituted alkyl, R.sub.1 is H.

R.sub.3 is substituted or unsubstituted alkyl or aryl. R.sub.4 and R.sub.5 each independently represents H, substituted or unsubstituted alkyl, substituted or unsubstituted aryl, secondary or tertiary amino, CO.sub.2 H, or NHSO.sub.2 R.sub.6, with the proviso that at least one of R.sub.4, R.sub.5, or a substituent on an aryl ring in R.sub.3, on an aryl ring in R.sub.4 or R.sub.5, on an aryl ring in R.sub.1 or R.sub.2, or on an aryl ring formed by R.sub.1 and R.sub.2 is CO.sub.2 H or NHSO.sub.2 R.sub.6. R.sub.6 is substituted or unsubstituted alkyl or substituted or unsubstituted aryl. R.sub.7 is substituted or unsubstituted alkyl, or together with R.sub.8 forms a double bond. R.sub.8 is H or together with R.sub.7 forms a double bond.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **124257-86-9P**
(preparation and reaction of, photog. filter dye from)
RN 124257-86-9 USPATFULL
CN Oxazolium, 3-[(4-carboxyphenyl)methyl]-2,4,5-trimethyl-, bromide (9CI) (CA INDEX NAME)



Br^-

L22 ANSWER 37 OF 38 TOXCENTER COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:195247 TOXCENTER
COPYRIGHT: Copyright 2005 ACS
DOCUMENT NUMBER: CA12722308066T
TITLE: Odorless nontoxic energy beam-sensitive acid generators with good solubility, curable compositions containing them and cured products
AUTHOR(S): Toba, Yasumasa; Tanaka, Yasuhiro
CORPORATE SOURCE: ASSIGNEE: Toyo Ink Mfg. Co., Ltd.
PATENT INFORMATION: JP 97241614 A2 16 Sep 1997
SOURCE: (1997) Jpn. Kokai Tokkyo Koho, 39 pp.
CODEN: JKXXAF.
COUNTRY: JAPAN
DOCUMENT TYPE: Patent
FILE SEGMENT: CAPLUS
OTHER SOURCE: CAPLUS 1997:617534
LANGUAGE: Japanese
ENTRY DATE: Entered STN: 20011116
Last Updated on STN: 20020618

ABSTRACT:
The acid generators are obtained from specified aromatic onium borate compds. having substituted quaternary N-containing heterocyclic 5-membered ring cation moieties (which may have a second N, O or S atom at position distant from the 1st N atom such as imidazolium, oxazolium and thiazolium) and fluoro borate anion moieties bearing Ph groups substituted with electron-withdrawing groups, e.g., F, NO2, CN and azide groups, in place of previously known hexafluorophosphate and hexafluoroantimonate anions. The generators are used in compns. containing acid-curable compds., and optionally radical-polymerizable monomers, photosensitizers and radical initiators for speeding up their curing under radiation with energy beams. An example of the acid generator was

N-benzylthiazolium tetrakis[3,5-bis(trifluoromethyl)phenyl]borate; the mixture of 1 part of which with 100 parts 3,4-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate (ERL-4221) could be cured with UV light.
CLASSIFICATION CODE: 37-6
SUPPLEMENTARY TERMS: Miscellaneous Descriptors
radiation curing resin acid generator; photocurable resin onium borate acid generator; odorless energy beam sensitive acid generator; nontoxic energy beam sensitive acid generator; benzylthiazolium fluoro borate acid generator; benzyloxazolium fluoro borate acid generator; benzylimidazolium fluoro borate acid generator; onium fluoro borate acid generator; quaternary ammonium borate acid generator
REGISTRY NUMBER: 197174-96-2 (N-Benzylthiazolium tetrakis(pentafluorophenyl)borate)
197174-99-5 (N-(p-Cyanobenzyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-02-3 (N-(m-Nitrobenzyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-04-5 (N-(Pentafluorophenylmethyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-06-7 (N-(o-tert-Butylbenzyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-08-9 (N-(p-Acetylbenzyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-10-3 (N-(p-Methoxycarbonylbenzyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-12-5 (N-(p-Octadecylbenzyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-14-7 (N-(2-Naphthylmethyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-16-9 (N-(9-Anthrylmethyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-18-1 (2-Fluoro-3-(α-methylbenzyl)thiazolium tetrakis(pentafluorophenyl)borate)
197175-20-5 (4-Chloro-3-benzhydrylthiazolium tetrakis(pentafluorophenyl)borate)
197175-22-7 (5-Bromo-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-24-9 (6-Hydroxy-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-26-1 (2-Mercapto-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-28-3 (4-Cyano-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-30-7 (5-Nitro-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-32-9 (2-Carbamoyl-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-34-1 (2-Methyl-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-36-3 (2-Isopropyl-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-38-5 (4-Cyclohexyl-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-40-9 (2-Fluoromethyl-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-42-1 (2-Phenyl-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)
197175-44-3 (2-(m-Chlorophenyl)-3-benzylthiazolium tetrakis(pentafluorophenyl)borate)

197175-46-5 (2-Acetyl-3-benzylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-48-7 (2-Benzoyl-3-benzylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-50-1 (2-(α-Mercaptoacetyl)-3-benzylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-52-3 (2-Ethoxycarbonyl-3-benzylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-54-5 (2-(tert-Butoxycarbonyl)-3-benzylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-56-7 (2-Cyclopentoxycarbonyl-3-benzylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-58-9 (2-Chloromethoxycarbonyl-3-benzylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-60-3 (4,5-Dichloro-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-62-5 (2,4,5-Trimethyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-64-7 (N-Phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-66-9 (N-(p-Cyanophenacyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197175-68-1 (N-(m-Nitrophenacyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197175-70-5 (N-(o-Cyanophenacyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197175-72-7 (N-(o-tert-Butylphenacyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197175-74-9 (N-(p-Acetylphenacyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197175-76-1 (N-(p-Methoxycarbonylphenacyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197175-78-3 (N-(p-Octadecylphenacyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197175-80-7 (N-(2-Naphthoylmethyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197175-82-9 (N-(9-Anthroylmethyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197175-84-1 (2-Fluoro-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-86-3 (2-Chloro-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-88-5 (4-Bromo-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-90-9 (5-Hydroxy-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-92-1 (2-Carboxy-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-94-3 (2-Mercapto-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-96-5 (2-Cyano-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197175-98-7 (4-Nitro-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-00-4 (5-Carbamoyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-02-6 (2-Methyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-04-8 (2-Isopropyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-06-0 (4-Cyclohexyl-3-phenacylthiazolium

tetrakis(pentafluorophenyl)borate)
197176-08-2 (5-Fluoromethyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-10-6 (2-Phenyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-12-8 (2-(m-Chlorophenyl)-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-14-0 (2-Acetyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-16-2 (4-Benzoyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-18-4 (4-(α-Mercaptoacetyl)-3-
phenacylthiazolium tetrakis(pentafluorophenyl)borate)
197176-20-8 (4-Ethoxycarbonyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-22-0 (4-tert-Butoxycarbonyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-24-2 (4-Cyclopentoxycarbonyl-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-26-4 (5-Chloromethoxycarbonyl-3-
phenacyloxazolium tetrakis(pentafluorophenyl)borate)
197176-28-6 (4,5-Dichloro-3-phenacylimidazolium
tetrakis(pentafluorophenyl)borate)
197176-30-0 (2,4,5-Trimethyl-1-phenacylpyrrolium
tetrakis(pentafluorophenyl)borate)
197176-32-2 (N-Allylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-34-4 (N-(2-Phenyl-3,3-dicyano-2-propenyl)thiazolium
tetrakis(pentafluorophenyl)borate)
197176-36-6 (N-(tert-Butoxy)thiazolium
tetrakis(pentafluorophenyl)borate)
197176-38-8 (N-(Chloromethoxy)thiazolium
tetrakis(pentafluorophenyl)borate)
197176-40-2 (N-(Phenoxy)thiazolium
tetrakis(pentafluorophenyl)borate)
197176-42-4 (N-(p-Cyanophenoxy)thiazolium
tetrakis(pentafluorophenyl)borate)
197176-44-6 (2-Methyl-3-ethoxythiazolium
tetrakis(pentafluorophenyl)borate)
197176-46-8 (4,6-Bis(ethoxycarbonyl)-3-phenacylthiazolium
tetrakis(pentafluorophenyl)borate)
197176-47-9 (N-Benzylthiazolium tetrakis[3,5-
bis(trifluoromethyl)phenyl]borate)
197176-48-0 (N-(p-Cyanobenzyl)thiazolium
tetrakis[3,5-bis(trifluoromethyl)phenyl]borate)
197176-49-1 (N-Phenacylthiazolium tetrakis[3,5-
bis(trifluoromethyl)phenyl]borate)
197176-50-4 (N-(p-Cyanophenacyl)thiazolium
tetrakis[3,5-bis(trifluoromethyl)phenyl]borate)
197176-51-5 (N-Allylthiazolium tetrakis[3,5-
bis(trifluoromethyl)phenyl]borate)
197176-52-6 (N-(2-Phenyl-3,3-dicyano-2-propenyl)thiazolium
tetrakis[3,5-bis(trifluoromethyl)phenyl]borate)
197176-54-8 (N-(tert-Butoxy)thiazolium
tetrakis[3,5-bis(trifluoromethyl)phenyl]borate)
197176-58-2 (N-Benzyloxythiazolium tetrakis[3,5-
bis(trifluoromethyl)phenyl]borate)
197176-61-7 (N-Phenoxythiazolium tetrakis[3,5-
bis(trifluoromethyl)phenyl]borate)
197176-64-0 (N-(p-Cyanophenoxy)thiazolium
tetrakis[3,5-bis(trifluoromethyl)phenyl]borate)

197176-67-3 (N-Phenacylthiazolium pentafluorophenyltrifluoroborate)
197176-69-5 (N-(o-Cyanophenacyl)thiazolium 3,5-bis(trifluoromethyl)phenyltrifluoroborate)
197176-72-0 (N-(m-Chlorophenacyl)thiazolium bis(pentafluorophenyl)difluoroborate)
197176-76-4 (N-(o-Hydroxyphenacyl)thiazolium bis[3,5-bis(trifluoromethyl)phenyl]difluoroborate)
197176-79-7 (N-(p-Methoxyphenacyl)oxazolium tris(pentafluorophenyl)fluoroborate)
197176-83-3 (N-(p-Benzoylphenacyl)oxazolium tris[3,5-bis(trifluoromethyl)phenyl]fluoroborate)
197176-85-5 (1-Methyl-3-phenacylimidazolium tetrakis(pentafluorophenyl)borate)
197176-88-8 (2,3,4-Trimethyl-phenacylpyrrolium tetrakis[3,5-bis(trifluoromethyl)phenyl]borate)
197176-94-6 (1-Phenacyl-2-methyloxazolium tetrakis(pentafluorophenyl)borate)
197176-97-9 (3-Phenacyl-1,2-dimethylimidazolium tetrakis(pentafluorophenyl)borate)
197176-99-1 (1-Phenacyl-2,3,3-trimethylpyrrolium tetrakis(pentafluorophenyl)borate)
9003-08-1 (Melamine resin)
9003-44-5 (Isobutyl vinyl ether polymer)
9003-53-6 (Polystyrene)
9011-14-7 (PMMA)
24472-02-4 (1,5,7,11-Tetraoxaspiro(5·5)undecane)
25067-59-8 (N-Vinylcarbazole polymer)
25085-98-7 (ERL 4221)
27790-26-7 (Ethylene glycol divinyl ether polymer)
28728-97-4 (γ-Butyrolactone polymer sru)
29611-97-0 (1,4-Butanediol diglycidyl ether polymer)
31213-03-3 (γ-Butyrolactone polymer)
42993-70-4 (1,4,6-Trioxaspiro(4·4)nonane polymer)
70068-81-4 (Diallyl phthalate-trimethylolpropane tri(thiolglycolate) copolymer)
80057-28-9 (4-Ethyl-1-phenyl-2,6,7-trioxabicyclo(2.2.2)octane homopolymer)
82752-41-8 (2-Methyl-1,4,6-trioxaspiro(4.4)nonane homopolymer)
140197-47-3 (Limonene monoepoxide polymer)
163219-73-6 (γ-Chloropropyltrimethoxysilane homopolymer)
194293-77-1 (1,4,6-Trioxaspiro(4.5)decane homopolymer)
194373-11-0 (Phenyloxetane homopolymer)
194429-21-5 (BHPE-3150)
194555-87-8 (γ-Chloropropyltrimethoxysilane polymer ladder sru)
2797-28-6 (Lithium tetrakis(pentafluorophenyl)borate)
79060-88-1 (Sodium tetrakis[3,5-bis(trifluoromethyl)phenyl]borate)

Registry records for hits from Tox center & CASReact printed beginning on pg. 66

REGISTRY NUMBER: 681-84-5; 24979-97-3; 25190-06-1; 1017-44-3; 16930-55-5; 95475-63-1; **197176-95-7**; 197177-00-7

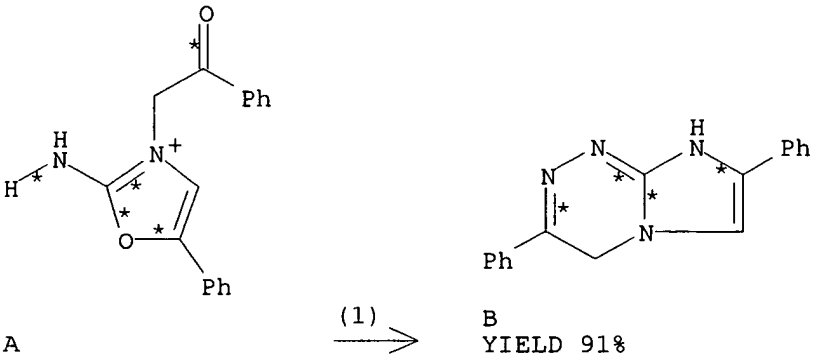
L22 ANSWER 38 OF 38 CASREACT COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 71:101827 CASREACT
TITLE: Ring cleavage of O,N-heterocycles. IV. Synthesis and properties of a new heterocyclic system, imidazo[2,1-c]-as-triazine
AUTHOR(S): Hetzheim, A.; Pusch, H.

CORPORATE SOURCE: Univ. Greifswald, Greifswald, Ger. Dem. Rep.
SOURCE: Chimia (1969), 23(8), 303-4
CODEN: CHIMAD; ISSN: 0009-4293
DOCUMENT TYPE: Journal
LANGUAGE: German
CLASSIFICATION: 28 (Heterocyclic Compounds (More Than One Hetero Atom))
GRAPHIC IMAGE: For diagram(s), see printed CA Issue.

ABSTRACT:
Ring fission of I with hydrazines rapidly formed II. N2H4.H2O (80%, 2.3 mole) is added to a solution of I in dimethylformamide (DMF) to form in 2-3 min. 91% II (R = H) (IIa), m. 295-7° (decomposition). Substitution of EtOH for DMF slows the reaction; H2O is added to isolate the intermediate III. III is also obtained by reaction of an aqueous solution of I with N2H4.H2O at room temperature I reacts
with MeNHNH2 to form II (R = Me) (IV), m. 160°. Treatment of IIa with Me2SO4-NaOMe also gives IV. I reacts with phenylhydrazine to yield V, m. 184-5°. IIa forms an HCl derivative, m. 264-5° (decomposition); acetyl derivative m. 195°; propionyl derivative m. 218-19°, benzoyl derivative m. 219-20°; phenylureido derivative m. 289-91° (decomposition)
N-Bromosuccinimide reacts with IIa in DMF to give VI, m. 344-5° (decomposition). Dehydrogenation to VI also occurs on attempted bromination of IIa in HOAc. VI, insol. in most organic solvents, reforms IIa on treatment with NaBH4 in DMF-pyridine. The derivs. fluoresce in DMF or dioxane solns. Addition of pyridine, EtOH, or H2O extinguishes the fluorescence.

SUPPL. TERM: imidazo triazines; triazines imidazo
INDEX TERM: 23767-03-5P 23767-04-6P 23767-05-7P 23773-44-6P
23773-45-7P 23773-46-8P 23773-47-9P 23773-48-0P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RX(1) OF 1 **A** ===> B



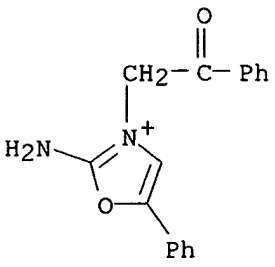
A → B
YIELD 91%

RX(1) RCT A 541507-72-6
RGT C 7803-57-8 N2H4-H2O
PRO B 23767-03-5
SOL 68-12-2 DMF
NTE Classification: Ring cleavage; Cyclisation; Hydrazination; Heterocycle formation; # Conditions: N2H4.H2O DMF; 2-3mn; # Comments: Reactant used as bromide salt

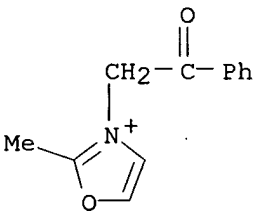
```
=> => fil reg
FILE 'REGISTRY' ENTERED AT 12:38:55 ON 11 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    9 JAN 2005  HIGHEST RN 810659-29-1
DICTIONARY FILE UPDATES:   9 JAN 2005  HIGHEST RN 810659-29-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> s  541507-72-6 or  197176-95-7 or  197176-94-6 or  197176-83-3 or  197176-79-7 or
197176-26-4

             1 541507-72-6
               (541507-72-6/RN)
             1 197176-95-7
               (197176-95-7/RN)
             1 197176-94-6
               (197176-94-6/RN)
             1 197176-83-3
               (197176-83-3/RN)
             1 197176-79-7
               (197176-79-7/RN)
             1 197176-26-4
               (197176-26-4/RN)
L23          6 541507-72-6 OR  197176-95-7 OR  197176-94-6 OR  197176-83-3 OR
               197176-79-7 OR  197176-26-4
```

hits from Toxcenter & CASReact

```
=> d ide l23 1-6; fil hom

L23  ANSWER 1 OF 6  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   541507-72-6  REGISTRY
CN   Oxazolium, 2-amino-3-(2-oxo-2-phenylethyl)-5-phenyl- (9CI)  (CA INDEX
     NAME)
FS   3D CONCORD
MF   C17 H15 N2 O2
SR   Reaction Database
LC   STN Files:   CASREACT
```



L23 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
RN 197176-95-7 REGISTRY
CN Oxazolium, 2-methyl-3-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)
MF C12 H12 N O2 . Br
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA CAplus document type: Patent
RL.P Roles from patents: RACT (Reactant or reagent)
CRN (197176-93-5)



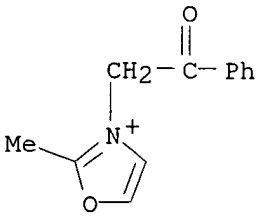
Br⁻

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L23 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
RN 197176-94-6 REGISTRY
CN Oxazolium, 2-methyl-3-(2-oxo-2-phenylethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Borate(1-), tetrakis(pentafluorophenyl)-, 2-methyl-3-(2-oxo-2-phenylethyl)oxazolium (9CI)
OTHER NAMES:
CN 1-Phenacyl-2-methyloxazolium tetrakis(pentafluorophenyl)borate
MF C24 B F20 . C12 H12 N O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)

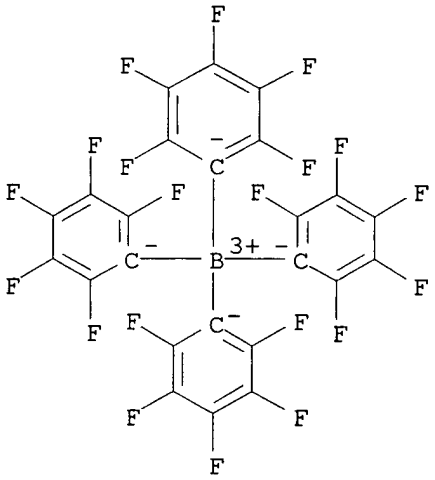
CM 1

CRN 197176-93-5
CMF C12 H12 N O2



CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS



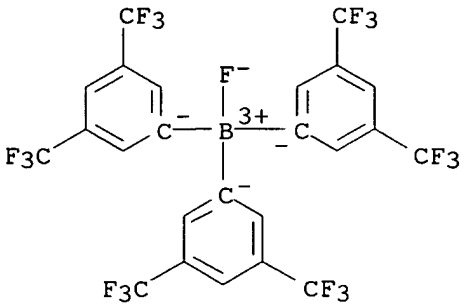
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L23 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
RN **197176-83-3** REGISTRY
CN Oxazolium, 3-[2-(4-benzoylphenyl)-2-oxoethyl]-, (T-4)-tris[3,5-bis(trifluoromethyl)phenyl]fluoroborate(1-) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Borate(1-), tris[3,5-bis(trifluoromethyl)phenyl]fluoro-, (T-4)-, 3-[2-(4-benzoylphenyl)-2-oxoethyl]oxazolium (9CI)
OTHER NAMES:
CN N-(p-Benzoylphenacyl)oxazolium tris[3,5-bis(trifluoromethyl)phenyl]fluoroborate
MF C24 H9 B F19 . C18 H14 N O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)

CM 1

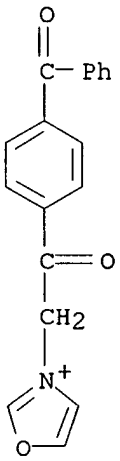
CRN 197176-82-2

CMF C24 H9 B F19
CCI CCS



CM 2

CRN 197176-81-1
CMF C18 H14 N O3

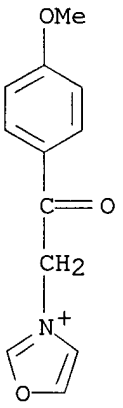


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L23 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
RN 197176-79-7 REGISTRY
CN Oxazolium, 3-[2-(4-methoxyphenyl)-2-oxoethyl]-, (T-4)-fluorotris(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Borate(1-), fluorotris(pentafluorophenyl)-, (T-4)-, 3-[2-(4-methoxyphenyl)-2-oxoethyl]oxazolium (9CI)
OTHER NAMES:
CN N-(p-Methoxyphenacyl)oxazolium tris(pentafluorophenyl)fluoroborate
MF C18 B F16 . C12 H12 N O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)

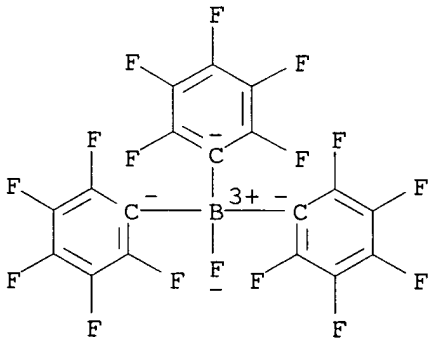
CM 1

CRN 197176-78-6
CMF C12 H12 N O3



CM 2

CRN 121827-59-6
CMF C18 B F16
CCI CCS

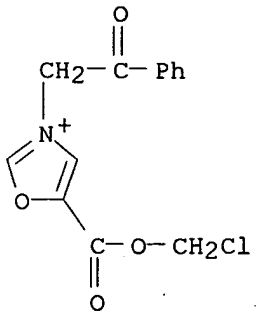


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L23 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2005 ACS on STN
RN **197176-26-4** REGISTRY
CN Oxazolium, 5-[(chloromethoxy)carbonyl]-3-(2-oxo-2-phenylethyl)-, tetrakis(pentafluorophenyl)borate(1-) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Borate(1-), tetrakis(pentafluorophenyl)-, 5-[(chloromethoxy)carbonyl]-3-(2-oxo-2-phenylethyl)oxazolium (9CI)
OTHER NAMES:
CN 5-Chloromethoxycarbonyl-3-phenacyloxazolium tetrakis(pentafluorophenyl)borate
MF C24 B F20 . C13 H11 Cl N O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)

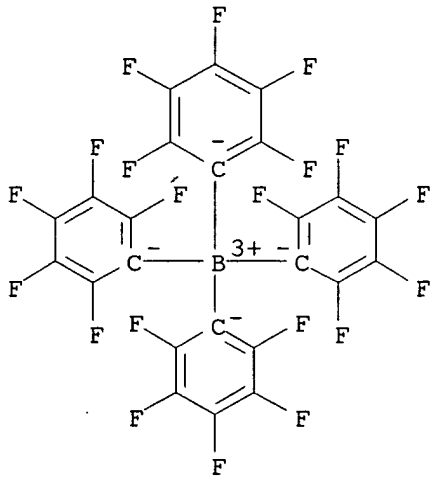
CM 1

CRN 197176-25-3
CMF C13 H11 Cl N O4



CM 2

CRN 47855-94-7
CMF C24 B F20
CCI CCS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

FILE 'HOME' ENTERED AT 12:39:15 ON 11 JAN 2005

=>